NUCLEAR DATA AND MEASUREMENTS SERIES

ANL/NDM-30

Analysis of the Sensitivity of Spectrum-Average Cross Sections to Individual Characteristics of Differential Excitation Functions

by

Donald L. Smith

March 1977

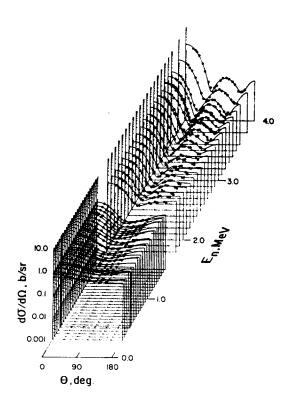
ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS 60439, U.S.A.

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In January 1975, the research and development functions of the former U.S. Atomic Energy Commission were incorporated into those of the U.S. Energy Research and Development Administration.

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PREFACE

This report contains material which was prepared for presentation at a meeting of the ENDF/B Dosimetry File Task Force held at the National Bureau of Standards, Gaithersburg, Maryland, during the period March 25-31, 1977.

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ANALYSIS OF THE SENSITIVITY OF SPECTRUM-AVERAGE CROSS SECTIONS TO INDIVIDUAL CHARACTERISTICS OF DIFFERENTIAL EXCITATION FUNCTIONS

bу

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ABSTRACT

A simple procedure for analyzing the sensitivity of computed spectrum-average cross sections to detailed properties of excitation functions for threshold nuclear reactions commonly used in reactor dosimetry is described. The approach is based upon consideration of two energy-dependent functions F and G defined by the formulas

$$F(E) = \int_{0}^{E} \sigma(\varepsilon) \phi(\varepsilon) d\varepsilon$$

and
$$G(E) = \int_{0}^{E} \sigma^{\dagger}(\varepsilon) \phi(\varepsilon) d\varepsilon$$
,

where σ is the differential excitation function, σ' is its first derivative with respect to energy, and ϕ is the neutron spectrum used in computing the spectrum-average cross section $\langle \sigma \rangle$. This procedure is shown to be useful in identifying specific needs for improved differential data and as a tool to be employed in performing evaluations. Several examples are presented to illustrate the subject matter.

This work performed under the auspices of the U.S. Energy Research and Development Administration.

I. INTRODUCTION

The development of accurate, reliable reactor dosimetry techniques ranks high among the priorities of reactor research programs in several countries including the U.S.A. The implications are profound since they encompass major issues such as safety (monitoring the structural integrity of containment vessels and key components of heat transfer systems) and economics (fuel cycle management). There are three essential ingredients required in order to develop reactor dosimetry technology to the level of maturity required for the routine demands associated with application in the electric power industry:

- i. Accurate, reliable and relatively simple procedures are required for the measurement of reaction rates experienced by dosimetry monitors during routine operation of power reactors.
- ii. The microscopic differential cross sections for a basic set of dosimetry monitor reactions need to be known with a precision adequate to satisfy the requirements for this application. Taken together, these reactions must encompass a wide range of spectral sensitivities (from thermal energies to many MeV).
- iii. Efficient and mathematically rigorous numerical procedures are needed in order to unfold reactor spectra and deduce neutron doses from the observed reaction rates for the monitors.

Items (i) and (iii) appear to present no real difficulties; however, limitations in the cross section data base are primarily responsible for impeding progress in the development of reactor dosimetry technology.

Granted that the establishment of an accurate data base of microscopic differential cross sections is crucially important for future development of the technology, it is worthwhile to examine what steps are to be taken in order to achieve this objective. It seems clear, in general terms, that progress will come from a combination of improved differential measurements and careful evaluation of existing data using consistent cross section standards and accurate supplementary non-neutron data (e.g. decay properties). The microscopic neutron cross sections are fundamental quantities and knowledge of these parameters may be required in the future for other technologies (e.g. medical applications). Therefore, it is suggested that development of an accurate data base for these cross sections should not be unduly influenced by expediencies having their origin in the desire to satisfy certain requirements of reactor technology. More specifically, cross section values should not be adjusted in order to obtain convenient consistency in the limited context of current reactor applications, with no regard to the possible implications for other technologies.

Of course, it is understandable why it has been tempting for scientists who have borne the responsibility for developing a viable dosimetry technology to resort to expedient solutions to bypass difficulties which were encountered as a result of the poor quality

of the available differential data. Fortunately, the situation has improved considerably in the last several years, owing to availability of new differential data which has emerged from research programs in several countries. It now appears possible to progress toward achievement of the goals of dosimetry technology without resorting to questionable scientific procedures.

Within limits consistent with this admonition, it is reasonable to employ benchmark fields as tools in the process of developing a differential cross section data base which is adequate for dosimetry applications. The benchmark facilities should be characterized by a high degree of reproducibility, well-known spectral properties, and structural simplicity to facilitate the interpretation of experimental results by means of computations. Furthermore, it is desirable to have some benchmark fields with spectra resembling those of power reactors. Reaction rate measurements in benchmark fields can serve to check on the consistency of currently recommended differential data sets. This can be very useful for pointing out apparent problem areas. However, the results of reaction rate measurements in benchmark fields should not be used to renormalize or otherwise adjust differential data, for to do this would be tantamount to an acceptance of the reaction rates, or equivalently, the spectrum-average cross sections, as fundamental quantities. Discrepancies in benchmark field reaction rate measurements (assuming that the fields are correctly characterized) can serve to identify needs for additional monoenergetic measurements designed to yield improved accuracy for the relevant

differential cross sections. It is incorrect to assume that real progress can be made in development of dosimetry technology by simply adjusting the differential cross sections without the guidance offered by new experimental microscopic data.

The objective of this report is the description of a simple formalism which is useful in analysis of the sensitivity of integral reaction rates to the details of differential cross section data. The purpose of performing such analyses is to decide how to best concentrate the expenditure of funds and manpower in the measurement of differential cross sections in order to establish a data base which is sufficiently accurate for dosimetry applications.

The mathematical formalism is presented in Section II. Some examples which illustrate the application of the method are presented in Section III. Emphasis is placed on threshold dosimetry reactions rather than reaction processes which are sensitive to low-energy neutrons, however the approach need not be limited to this category of monitors.

II. FORMALISM

The reaction rate for a dosimetry monitor in an integral field φ is related to the spectrum-average cross section $<\sigma>$ defined by the formula

$$\langle \sigma \rangle = \int_{0}^{\infty} \sigma(\varepsilon) \phi(\varepsilon) d\varepsilon$$
, (1)

with the constraint of normalization

$$\int_{0}^{\infty} \phi(\varepsilon) d\varepsilon = 1$$
 (2)

required for the function ϕ .

Let us define a function

$$F(E) = \int_{0}^{E} \sigma(\varepsilon) \phi(\varepsilon) d\varepsilon , \qquad (3)$$

which is related to the spectrum-average cross section by the expression

$$\langle \sigma \rangle = F(\infty) . \tag{4}$$

The function F is useful because it provides a means for examining the contribution to the spectrum-average cross section which comes from specific energy intervals. For example, the fractional contribution $f(E_1,E_2)$ to the spectrum average, corresponding to the energy interval (E_1,E_2) , is given by the formula

$$f(E_1,E_2) = [F(E_2) - F(E_1)] / < \sigma >$$
 (5)

It has been decided that a practical cutoff for the energy integrations of Eqs. (1) and (2) is 20 MeV and this has been selected as the upper limit for the ENDF/B-IV Dosimetry File [1]. Thus.

$$<\sigma>$$
 $\stackrel{\circ}{\sim}$ F(20 MeV) (6)

is assumed for most cross sections and spectra of interest for current dosimetry applications.

Eq.(5) is the starting point for the present sensitivity analysis.

Let

 P_{σ} = an assumed percentage change in the normalization of σ in the interval (E₁,E₂) ,

 P_N = the percentage change in the computed < σ > resulting from this change in σ within the interval (E₁,E₂),

then

$$P_{N} = P_{\sigma} f(E_1, E_2) , \qquad (7)$$

with f computed using Eqs.(3) and (5).

Normalization considerations are not the only ones which may be encountered in the development of accurate differential cross sections for applications. There is also the matter of energy scale definition. Differential cross sections are measured using monoenergetic techniques and it is well known that uncertainties exist in the determination of energy scales.

Assume that the function S represents an assumed excitation function which is related to the $\boldsymbol{\sigma}$ by the expression

$$S(E) = \sigma [E + \delta(E)]$$
 (8)

where δ represents a small energy-dependent shift of the neutron-energy scale. The magnitude of δ generally increases with energy, but only gradually. The ratio δ/E is a small quantity so it is reasonable to consider using a Taylor series expansion to approximate Eq.(8):

$$S(E) \stackrel{\sim}{\sim} \sigma(E) + \delta(E) \sigma'(E) + \frac{1}{2} \delta^{2}(E) \sigma''(E)$$
 (9)

where σ' and σ'' are first and second derivatives of σ respectively.

The relative importance of the individual terms in this expansion can be examined by means of a numerical example which is representative of typical applications for this formalism.

The greatest sensitivity to energy scale definition for threshold reactions is in the threshold region. A reasonable approximation to threshold behavior of an excitation function is

$$\sigma(E) \sim a \exp(bE),$$
 (10)

so that

$$\sigma'(E) \sim b \sigma$$
 (11)

$$\sigma^{\dagger\dagger}(E) \sim b^2 \sigma$$
 (12)

For this model, the ratio of the first-order to zeroth order terms is

$$^{\rho}_{1} = b \delta(E) , \qquad (13)$$

and the ratio of the second-order to zeroth order terms is

$$\rho_2 = \frac{1}{2} b^2 \delta^2(E) \quad (14)$$

Typically, b $\stackrel{\sim}{\sim}$ 2.3 which corresponds to an order-of-magnitude increase in σ for an energy increase of \sim 1 MeV in the threshold region. An uncertainty in the energy, δ , of \sim 0.01 to 0.02 MeV is quite possible for a reaction with a threshold in the vicinity of a few MeV. Consequently, $\rho_1 \stackrel{\sim}{\sim} 0.02$ to 0.05 and $\rho_2 \stackrel{\sim}{\sim} 0.0003$ to 0.001. So, it is entirely reasonable to neglect the second- and higher-order terms of the Taylor series expansion.

The relationship between the assumed excitation function S and the true cross section σ is well approximately by the formula

$$S(E) = \sigma(E) + \delta(E)\sigma'(E). \tag{15}$$

In terms of the spectrum average, defined as in Eq.(1), we have

$$\langle S \rangle = \langle \sigma \rangle + \langle \delta \sigma^{\dagger} \rangle$$
 (16)

Let us define a function G as follows:

$$G(E) = \int_{0}^{E} \sigma'(\epsilon) \phi(\epsilon) d\epsilon . \qquad (17)$$

The effect of an energy scale shift in the interval (E ,E) will be shown to be related to the function g defined by

$$g(E_1, E_2) = [G(E_2) - G(E_1)] / < \sigma > .$$
 (18)

It happens that the function δ varies so gradually with energy that it can be approximated by a constant $\overline{\delta}$ in a typical interval (E_1,E_2) . Let

 P_E = the percentage change in the computed < σ > resulting from energy scale uncertainty, defined by the function δ , in the interval (E_1,E_2) ,

then

$$P_{E} = \frac{100}{\langle \sigma \rangle} \int_{E}^{E_{2}} \delta(\epsilon) \sigma^{1}(\epsilon) \phi(\epsilon) d\epsilon$$

$$\stackrel{\sim}{\sim} 100 \overline{\delta} g(E_{1}, E_{2}) . \tag{19}$$

It follows from the preceding formalism that what is needed for routine sensitivity analyses are tables of the functions F and G vs. energy. These tables can be computed using evaluated cross sections (e.g. ENDF/B-IV [1]). Tabular information, prepared for several benchmark fields, can be used in planning future measurements aimed at improving the data base, or in clearly defining the implications of proposed changes in differential cross sections including segment renormalization and energy scale adjustments.

III. APPLICATION OF THE METHOD TO SELECTED EXAMPLES

Various benchmark fields have been employed in the testing and validation of differential data sets for dosimetry applications [2].

It is not practical to examine all these possibilities in the present work. The formalism of Section II is quite simple, so the interested reader can readily generate the tabular information needed to apply the method for any specific cases desired.

One neutron field which is universally accepted as a standard is the neutron spectrum resulting from thermal-neutron induced fission of 235 U. The energy range from 0.25 to 8 MeV is an important one for threshold dosimetry reactions, and this spectrum can be represented to within $\stackrel{<}{\sim}$ 2% by the Maxwellian function

$$\phi(E) = C E^{\frac{1}{2}} \exp(-1.5 E/E_{av})$$
, (20)

with $E_{av}=1.97$ MeV, in this energy range [3]. A collection of 22 threshold reactions from the ENDF/B-IV Dosimetry File [1] has been investigated using this standard spectrum. Relevant graphical and tabular information appear in the Appendix. Graphs of σ ϕ are useful because they indicate the energy regions for which normalization considerations are important. Likewise, plots of σ' ϕ point out energy regions for which energy scale definition is crucial. The examples given below are used to illustrate the method of analysis developed in this work. These examples make use of some, but by no means all, of the material in the Appendix.

Group structure formalism has not been used in the present work. Integrals of the form

$$\zeta = \int_{0}^{E} I(\varepsilon) d\varepsilon \tag{21}$$

are approximated by the finite sum

with $\Delta \varepsilon$ = 0.001 MeV, ε_{i} = (0.001)i and n is such that E $^{\circ}$ (0.001)n. Interpolation laws specified in the ENDF/B-IV Dosimetry File [1] have been utilized in calculating $\sigma(\varepsilon_{i})$. The derivative $\sigma^{\dagger}(\varepsilon_{i})$ is approximated by the expression

$$\sigma^{i}(\varepsilon_{i}) \stackrel{\wedge}{\sim} \frac{1}{\Delta \varepsilon} \left[\sigma(\varepsilon_{i+1}) - \sigma(\varepsilon_{i}) \right] .$$
 (23)

The ⁵⁶Fe(n;p) ⁵⁶Mn Reaction

This reaction has been designated as a Primary or Category I reaction because of the good agreement which has been observed between the results of integral measurements in benchmark fields and spectrum-average calculations based on ENDF/B-IV differential cross sections. To be considered for inclusion in Category I, consistency of the order of 3-5% is required for benchmark test results.

This reaction has a broad threshold region and it is apparent from the appropriate plot in the Appendix that the spectrum-average cross section is sensitive to the definition of the energy scale over the range 4-11 MeV. An uncertainty $\overline{\delta} \stackrel{>}{\sim} 0.03$ MeV for the energy scale in this region is a very likely possibility for this reaction. Utilizing the appropriate G values from the Appendix and Eq.(19), it is found that the computed $<\sigma>$ for 235 U fission could be in error by $\stackrel{>}{\sim} 2\%$ as a result of this effect alone. This is not a large error, but it seems that it may be a matter of luck that the ENDF/B-IV evaluation for this reaction yields benchmark consistency of Category I caliber.

The ²³⁸U(n;f) Reaction

At a recent Specialists Meeting on fast-neutron fission for isotopes of uranium and plutonium [4], a controversy arose concerning

definition of the energy scale for 238 U fission in the vicinity of threshold. The possibility of an uncertainty $\overline{\delta} \sim 0.02$ MeV was raised. How significant is this from the point of view of dosimetry applications? It is clear from the appropriate graph of σ^{\bullet} ϕ in the Appendix that the energy interval 1-2 MeV is the only one of any importance for this consideration. A calculation based on Eq.(19) and values of G in the Appendix yields an uncertainty of \sim 1% in $<\sigma>$ for a 235 U fission spectrum. This error is not large enough to produce any significant problems.

The ¹¹⁵In(n;n') ^{115m}In Reaction

An evaluation of this reaction has recently been undertaken for the ENDF/B-V Dosimetry File [5]. This new evaluation is based entirely on differential data (as it should be) and there are some obvious differences between this evaluation and the corresponding ENDF/B-IV evaluation [1]. The calculated spectrum-average cross section for 235 U fission neutrons differ by \sim 13% for these two evaluations. The spectrum-average cross section calculated using the recent evaluation appears to be in good agreement with the currently accepted integral value [6].

Which differences in these evaluations are significant from the point of view of the spectrum-average cross section? Energy scale definition is only significant for the energy range 0.5 - 2 MeV. Allowing for an uncertainty $\overline{\delta} \sim 0.01$ MeV at these energies, it is found that an uncertainty of $\sim 0.5\%$ is introduced into the computation of the spectrum-average cross section. This is negligible,

so one turns to consideration of normalization effects. From
Figs. 2 and 3 of Ref. 5, it is seen that the most obvious differences between the two evaluations for the \$^{115}In(n;n')^{115m}In reaction are found in the energy regions 0.5 - 0.6 MeV, 0.7 - 1.0
MeV, 2 - 4 MeV and 5 - 7 MeV. Using the analysis described in this report, it is seen that the ~ 10% difference in the region
2 - 4 MeV is by far the most significant insofar as the spectrum-average cross section is concerned. The results of two recent differential measurements [7,8] agree very well in this important region. The new evaluation [5] relies heavily on these consistent data sets in this region. This may explain why the spectrum-average cross section computed using the new evaluation agrees with the measured integral value.

The 46 Ti(n;p) 46 Sc Reaction

Although the threshold for this reaction is 1.62 MeV, there are no monoenergetic data upon which to base an evaluation in the threshold region below \sim 3.7 MeV. In a recent evaluation, it was necessary to determine the shape of the differential cross section in this region by means of statistical model calculations [9]. How important is this energy region from the point of view of dosimetry applications? What priority should be given to performing differential measurements at these energies? The table of F values for the $^{46}\text{Ti}(n,p)^{46}\text{Sc}$ reaction, which is contained in the Appendix, can be used to readily show that \sim 11% of the contribution to $<\sigma>$ for a ^{235}U fission spectrum comes from energies < 3.7 MeV. The differential

cross section estimated from model calculations could be in error by as much as 20% in this region which would lead to an error of $\stackrel{>}{\sim} 2\%$ in computation of the 235 U spectrum-average cross section and significantly larger errors for softer spectra characteristic of a power reactor. Measurements for at least a few energies below 3.7 MeV are needed in order to verify the excitation function derived from model calculations.

The ⁴⁷Ti(n;p) ⁴⁷Sc Reaction

A feature of both the ENDF/B-IV [1] evaluation and a recent evaluation by Philis et al. [9] is the presence of a cusp in the excitation function between 2.2 and 2.6 MeV. Just how large an effect does this cusp have on the 235 U spectrum-average cross section for this reaction? Elimination of the cusp would be equivalent to lowering the cross section by \sim 15% in this range. From Eq.(7) and tabular information the Appendix, it can be shown that the effect of removing the cusp is a reduction of the spectrum-average cross section by < 2%. The presence of the cusp appears to be substantiated by the existing experimental data; however, the significance of its presence is modest from the point of view of dosimetry applications.

There are many other examples of the application of this method of analysis which could be included in this report; however, the objective of this report is to describe the method rather than to exhaustively survey the current status of differential dosimetry data.

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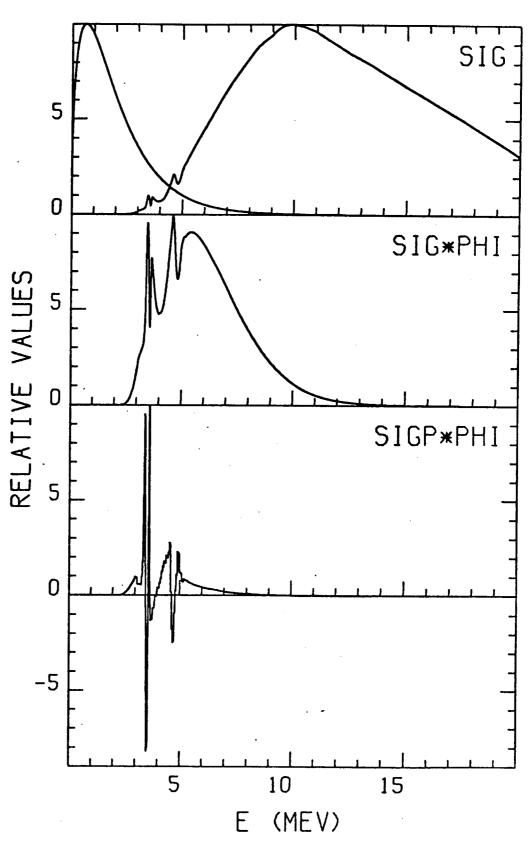
APPENDIX

GRAPHICAL AND TABULAR INFORMATION CORRESPONDING TO THE RESPONSE OF SEVERAL THRESHOLD REACTIONS TO A 235U THERMAL-NEUTRON FISSION SPECTRUM

Calculations were performed for the following threshold reactions using values from the ENDF/B-IV Dosimetry File [1]:

A 0.1-MeV interval was selected for the tables, and values of σ (SIG), σ' (SIGP), ϕ (PHI), σ ϕ (SIG*PHI), F, σ' ϕ (SIGP*PHI), and G vs. energy E are provided. Plots of σ , ϕ (shown with σ but not labelled), $\sigma\phi$ and $\sigma'\phi$ are included, along with the tabular information, for each reaction. Discontinuities in the σ' ϕ plots result from shortcomings in the evaluated σ curves and in the interpolation laws utilized in the computations.





£	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.1900E 01	.3412E-15	.8749E-13	.2432E-03	.8298E-19	.2044E-18	.2128E-16	.1044E-15
.2000E 01	.9090E=14	4343E-10	.2312E-03	.2102E-17	1122E-15	.1004E-13	.1220E-13
.2100E 01	5230E-09	3151E-07	.2196E=03	1148E-12	•1119E-11	6919E-11	.1223E-09
.2200E 01	.6600E=07	.2160E-05	.2003E=03	.1375E-10	35115-09	4498E-09	.1430E-07
.2300E 01	1150E-U5	.2465E-U4	.1973E-03	.2269E-09	.8691E-08	4863E-08	2365E-U6
.2400E 01	.8000E-05	.1224E-03	.1865E-03	.1494E-08	.7949E-07	2286E-U7	.1561E-05
.2500E 01	.3280E=04	.3♂J1E-03	.1767E-03	.5795E-08	.4073E-06	.6715E-07	.6Ud9E-05
.2600E 01	. 96 90E = u4	.8644E-63	.1670E-03	.1618E-07	.1441E-05	.1477E-06	.1714E - 14
.2700E 01	.2290E⇒03	.1679E-62	.1577E-03	.3611E-07	.3964E-U5	,2648E-J6	.3063E-04
.2800E 01	.4590E-U3	.2781E-02	.1405£-03	.6829E-07	.9074E-05	4137E-06	.7393E=04
.2900E 01	.818UE-US	.4154E-02	.1403E-03	.1148E-06	.1d11E=04	,5829E-06	.1259E=03
.3000E 01	.1330E=02	,5949E-02	.1323E-u3	.1759E-06	.3253E-04	,7868E-06	.1957E-03
.3100E 01	,2010E-02	.4500E-02	.1246E-03	.2504E-06	.5392E=04	,5606E-36	.2828E-03
.3200E 01	.2460E-02	.4700E-02	.1173E-03	.2886E-06	.8093E-04	.5513E-06	.3372E-U3
.3300E 01	.2930E-02	.8273E-02	.1164E-US	.3234E-06	.1116E=03	.9132E-06	.3411E-J3
.3400E 01	.5100£-02	.6160E-01	.1038E-03	.5295E-06	.1506E-03	.6417E-05	.6266E=03
.3500E 01		-,1600E-31	.9762E-04	.9860E-06		-,15625-75	.1127E-02
3600E 01	.46U0E=U2	.3780E-01	.9175E-04	.422UE-06	.3060E-03	.346HE-05	.6123E=03
.3700E 01		1400E-01	.6619E-04	.7644E-06		-,1207E-05	.1013E=02
.3800E 01	•	7500E-02	.80 45E-04	.6233E-06		6314E-06	.8963E-03
.3900E 01		6412E-03	7599E-04	.5319E-06		-,4873E-07	.8418E-03
.4000E 01	.6967E-02	.5333E-02	.7132E-04	.4969E-06	.5534E-03	.3803E-06	.8378E-03
.4100E 01	.7500E-02	.9042E-62	.6691E-04	.5018E-06	.60345-03	.6050E-06	.8763E=03
.4200E 01	,8600E=02	.1067E-01	.6276E-04	.5397E-06	.6552E-03	.1184E-05	.9485E+03
.43U0E 01	.1070E-01	.2600E-01	.5654E-U4	.6296E-06	.7135E-03	.1648E-05	.1076E-02
.4400E 01	.1350E-61	.3500E-01	.5516E-04	.7447E=06	.7824E-03	,1931E-05	.1236E=02
.4500E 01	.1700E=01 .2156E=01	.4000E=01	.5169E-04	.6788E-06	.8638E=03	,2063E-95	.1423E+62
.4600E 01	.20006-01	>000E-01	.4537E-04	.1044E-05	.9596E+03	.1803E-06 2268E-05	.1649E=92 .1575£=02
.4800E 01	.16>0E=01	.5449E-02	.42496-04	.7010E-06	.1138E-02	.2336E-06	.1423E-02
.4900E 01	.1800E-01	,5360E-01	.3978E-04	.7160E-06	.12086-02	.2103E=35	.1486E-02
5000E 01	.2330E-U1	.3040E-01	.3724E=04	.8676E=06	.1287E-02	1132E-05	.1689E=02
.5100E 01	.2634E-01	.1996E-01	3465E-04	9180E-06	1376E-02	.6956E-06	.1793E-02
.5200E 01	.2634E-01	.2414E-01	3261E=04	.9240E-06	1469E-02	7872E-36	.1066E-J2
.5300E 01	3u75E-01	.2414E-01	3051E-04	.9381E-06	.1562E-02	7365E-06	.1942E-02
,5400E 01	.3316E-01	.2270E-01	2854E-04	.9464E-06	.16565-02	.6478E-06	.2013E-J2
.5500E 01	.3543E=01	.2270E-G1	.2669E-04	.9457E-06	.1751E-02	6058E-06	.2u76E=02
.5000E 01	3770E-01	.2186E-01	.2496E-04	.9409E-06	.1845E-02	5455E-96	.2134E=02
.5700E 01	3989E-01	.2166E-C1	.2333E-04	.9307E-06	.1939E-02	.5100E-06	.2137E-02
.5800E 01	.4208E-01	.2162E=01	.2181E=04	.9177E-06	.2031E-02	4715E=06	.2236E-02
,5900E 01	.4424£-01	.2162E-01	.20362-04	.9018E-06	21225-02	.4407E-06	.2202E=02
.6000E 01	.4540E-01	.2108E-01	.1905E-64	.8839E-06	.2211E-02	.4016E-06	.2324E-02
.6100E 01	.4851E-01	,2108E-01	.1780E-64	.6634E-06	.2299E-02	,3752E-06	.2363E=02
.6200E 01	,5062E=01	.2124E-01	.1663E-04	.6417E-06	.23845-02	,3532E-06	.2399E-02
.6300E 01	.5274E=U1	.2124E-01	.1553E=04	.6192E-06	.24675-02	,3299E-06	.2433E-02
.6400E 01	,5486E-U1	.2212E-61	.1451E-U4	.7960E-06	.2548E-02	.3209E-06	.2465E-02
.6500E 01	.5706E=01	.2212E-01	.1355E-04	.7734E-06	.2626E-02	.2997F-U6	.2496E-02
.6600E U1	.5929E-01	.2192E-01	.1265E-L4	.7501E-06	.2702E-02	.2773E-J6	,2525E-02
.6700E 01	.6148E-U1	.2192E-01	.11d1E=04	7263E-06	.2776E-02	.2589E-J6	.2552E-02
.6800E 01	,6367E-U1	.2064E-01	.1103E-04	.7022E-06	.2848E-02	.2276E-06	,2577E-02

AL-27(N.P)MG-27 U-235 FISSIZN SPECTRUM

.7000E 01 .7100E 01 .7200E 01 .7300E 01 .7400E 01 .7500E 01 .7600E 01 .7700E 01 .7800E 01 .7900E 01 .8000E 01 .8100E 01 .8200E 01	6574E-01 6780E-01 6780E-01 77558E-01 77521E-01 7700E-01 7880E-01 5054E-01 8394E-01 8394E-01 8729E-01 8698E-01	.2064E-01 .1876E-01 .1876E-01 .1528E-01 .1528E-01 .1796E-01 .1796E-01 .1740E-01 .1740E-01 .1660E-01 .1660E-01 .1688E-01 .1688E-01 .1464E-01	.1029E-04 .9609E-05 .8969E-05 .7809E-05 .7280E-05 .7280E-05 .6341E-05 .5914E-05 .5144E-05 .5144E-05 .4797E-05	.6767E-06 .6515E-06 .5248E-06 .5730E-06 .5730E-06 .5479E-06 .4234E-06 .4763E-06 .4539E-06 .4518E-06	.2917E-02 .2983E-02 .3047E-02 .3108E-02 .3167E-02 .3223E-02 .3276E-02 .3327E-02 .33423E-02 .3467E-02	.2125E-06 .1803E-06 .1682E-06 .1530E-06 .1427E-06 .1309E-06 .1221E-06 .1103E-06 .1029E-07 .8098E-07	.25 99E - 02 .26 20E - 02 .26 37 E - 02 .26 53E - 02 .26 53E - 02 .26 52E - 02 .26 94E - 02 .27 10E - 02 .27 17E - 02 .27 27E - 02 .27 36E - 02
.7000E 01 .7100E 01 .7200E 01 .7300E 01 .7400E 01 .7500E 01 .7700E 01 .7800E 01 .7900E 01 .8000E 01 .8100E 01 .8200E 01	6780E-U1 6968E-U1 7155E-01 7338E-U1 7521E-01 7700E-01 7880E-01 8054E-U1 8228E-U1 8560E-U1 8729E-01 8698E-U1	.1876E-01 .1876E-01 .1828E-01 .1828E-01 .1796E-01 .1796E-01 .1740E-01 .160E-01 .1668E-01 .1688E-01 .1668E-01	.8968E-05 .8369E-05 .7809E-05 .7256E-05 .6797E-35 .6341E-05 .5914E-05 .5516E-05 .4797E-05	.6248E-06 .5988E-06 .5730E-06 .5479E-06 .5234E-06 .4968E-06 .4763E-06 .4318E-06 .4106E-06	.3047E-02 .3108E-02 .3167E-02 .3223E-02 .3276E-02 .3327E-02 .3376E-02 .3423E-02	.1682E-06 .1530E-06 .1427E-06 .1309E-06 .1221E-06 .1103E-06 .1029E-06 .9157E-07	.2637E-02 .2653E-02 .2653E-02 .2652E-02 .2654E-02 .2796E-02 .2717E-02 .2727E-02 .2736E-02
7100E 01 7200E 01 7300E 01 7400E 01 7500E 01 7500E 01 7700E 01 7800E 01 7800E 01 8000E 01 8100E 01 8200E 01	6966E-01 7155E-01 7338E-01 7521E-01 7700E-01 7880E-01 8054E-01 8228E-01 8596E-01 8729E-01 8698E-01	.1676E-01 .1528E-01 .1796E-01 .1796E-01 .1740E-01 .174UE-01 .1660E-01 .1668E-01 .1668E-01	.8968E-05 .8369E-05 .7809E-05 .7256E-05 .6797E-35 .6341E-05 .5914E-05 .5516E-05 .4797E-05	.6248E-06 .5988E-06 .5730E-06 .5479E-06 .5234E-06 .4968E-06 .4763E-06 .4318E-06 .4106E-06	.3108E-02 .3167E-02 .3223E-02 .3276E-02 .3327E-02 .3376E-02 .3423E-02	.1530=-06 .1427E-06 .1309E-06 .1221E-06 .1103E-06 .1029E-06 .9157E-07 .8540E-07	.2653E-02 .2663E-02 .2652E-02 .2694E-02 .2716E-02 .2717E-02 .2727E-02 .2736E-02
.7200E 01 .7300E 01 .7400E 01 .7500E 01 .7600E 01 .7700E 01 .7800E 01 .7900E 01 .8000E 01 .8100E 01 .8200E 01	7155E-01 7338E-01 7521E-01 7700E-01 7880E-01 8054E-01 8228E-01 8596E-01 8729E-01 8698E-01	.1528E-01 .1328E-01 .1796E-01 .1796E-01 .1740E-01 .174UE-01 .1660E-01 .1668E-01 .1668E-01 .1668E-01	.780yE-05 .7256E-U5 .6797E-J5 .6341E-U5 .5914E-U5 .5516E-N5 .5144E-C5 .4797E-U5	.5730E-06 .5479E-06 .5234E-06 .4996E-06 .4763E-06 .4539E-06 .4318E-06 .4106E-06	.3167E-02 .3223E-02 .3276E-02 .3327E-02 .3376E-02 .3423E-02	.1427E-06 .1309E-06 .1221E-06 .1103E-06 .1029E-06 .9157E-07 .8540E-07	.2663E=02 .2652E=02 .2694E=02 .2796E=02 .2717E=02 .2727E=02 .2736E=02
.7300E 01 .7400E 01 .7500E 01 .7600E 01 .7700E 01 .7800E 01 .7900E 01 .8000E 01 .8100E 01 .8200E 01	7338E-01 77521E-01 7700E-01 7880E-01 8054E-01 8228E-01 8594E-01 8729E-01 8729E-01 8729E-01	.1928E-01 .1796E-01 .1796E-01 .1740E-01 .174UE-01 .1660E-01 .1668E-01 .1668E-01	.780yE-05 .7256E-U5 .6797E-J5 .6341E-U5 .5914E-U5 .5516E-N5 .5144E-C5 .4797E-U5	.5479E-06 .5234E-06 .4996E-06 .4763E-06 .4539E-06 .4318E-06 .4106E-06	.3167E-02 .3223E-02 .3276E-02 .3327E-02 .3376E-02 .3423E-02	.1309E-06 .1221E-96 .1103E-06 .1029E-06 .9157E-07 .8540E-07	.2652E+02 .2694E+02 .2706E-02 .2717E+02 .2727E+02 .2736E+02
.7400E 01 .7500E 01 .7600E 01 .7700E 01 .7800E 01 .7900E 01 .8000E 01 .8100E 01 .8200E 01	7521E-01 770UE-01 7880E-01 5054E-01 8228E-01 8394E-01 8729E-01 8729E-01	.1796E-C1 .1796E-01 .1740E-C1 .174UE-01 .1660E-01 .1660E-01 .1688E-U1 .1688E-U1	.6797E-35 .6341E-05 .5914E-05 .5516E-05 .5144E-05 .4797E-05	.5479E-06 .5234E-06 .4996E-06 .4763E-06 .4539E-06 .4318E-06 .4106E-06	.3276E-02 .3327E-02 .3376E-02 .3423E-02 .3467E-02	.1221E-06 .1103E-06 .1029E-06 .9157E-07 .3540E-07	.2694E+02 .2706E+02 .2717E+02 .2727E+02 .2736E+02
.7500E 01 .7600E 01 .7700E 01 .7800E 01 .7900E 01 .8000E 01 .8100E 01 .8200E 01	770UE-01 7880E-01 8054E-01 8228E-01 8394E-01 8560E-01 8729E-01 8898E-01	.1796E-01 .1740E-01 .1740E-01 .1660E-01 .1660E-01 .1688E-01 .1688E-01	.6341E-05 .5914E-05 .5516E-05 .5144E-05 .4797E-05	.5234E-06 .4996E-06 .4763E-06 .4539E-06 .4318E-06 .4196E-96	.3327E-02 .3376E-02 .3423E-02 .3467E-02	.11035-06 .1029E-06 .9157E-07 .8540E-07	.2706E-02 .2717E-02 .2727E-02 .2736E-02
.7600E 01 .7700E 01 .7800E 01 .7900E 01 .8000E 01 .8100E 01 .8200E 01	7880E-01 5054E-01 6228E-01 8394E-01 6560E-01 8729E-01 6698E-01 9044E-01	.1740E-01 .1740E-01 .1660E-01 .1660E-01 .1688E-01 .1688E-01 .1464E-01	.5914E-05 .5516E-05 .5144E-05 .4797E-05 .4473E-05	.4763E-06 .4539E-06 .4318E-06 .4196E-96	.3376E-02 .3423E-02 .3467E-02	.1029E-06 .9157E-07 .8540E-07	.2717E=02 .2727E=02 .2736E=02
.7700E 01 .7800E 01 .7900E 01 .8000E 01 .8100E 01 .8200E 01 .8300E 01	5054E-01 6228E-01 8394E-01 6560E-01 8729E-01 6698E-01	.1660E-01 .1660E-01 .1688E-01 .1688E-01 .1464E-01	.5516E=05 .5144E=05 .4797E=05 .4473E=05	.4539E-06 .4318E-06 .4196E-96	.3423E-02 .3467E-02	.9157E-07	.2727E-02
.7800E 01 .7900E 01 .8000E 01 .8100E 01 .8200E 01 .8300E 01	8394E-01 8394E-01 8566E-01 8729E-01 8898E-61	.1660E-01 .1660E-01 .1688E-01 .1688E-01 .1464E-01	.5144E-05 .4797E-05 .4473E-05	.4318E-06 .4196E-96	.3467E-02	.3540E-07	.2736E-02
.7900E 01 .8000E 01 .8100E 01 .8200E 01 .8300E 01	8394E=U1 8560E=U1 8729E=01 8898E=61 9044E=U1	.1600E-01 .1600E-01 .1600E-01 .1464E-01	.4797E=05 .4473E=05	.4196E-96			-
.8000E 01 .8100E 01 .8200E 01 .8300E 01	6560E=01 8729E=01 8898E=01 9044E=01	.1668E-01	4473E-65		.3509E=02	.angar_n7	
.8100E 01 .8200E 01 .8300E 01	8898E=01 9044E=01	.1464E-01	•	.3905E-06		•	.2744E=02
.8200E 01	8898E=01 9044E=01	•	ムチフィに 一心に		.3549E=02	.7551E-07	.2752E-02
.8300E 01	-	14645-01	* 4 7 / 7 5 - 0 7	.3711E-06	.3587E-02	.5105E-07	2759E-J2
1 1 1 1 1 1 1	.919UE-01	* T 40 45 - N T	.3666E=U5	.3517E-06	.3623E-02	.5693E-07	.2765E-J2
.84UQE 01		,1120t-01	.3625E-05	.3332E-06	.3657E=02	.4060E-07	.2770E + 52
	,93026-01	.1126E-01	.3379E-05	.3143E-06	.3690E-02	.3785E-07	.2774E=U2
	9414E-01	.756UE-02	.315UE-05	.2965E-06	.3720∈-02	,3011E-07	.2775E+C2
8700E 01	.9510E-01	,9560E-J2	,2936E=u5	.2792E-06	•3749E=02	2807E-07	.2731E-02
	,9606E=01	.3720E-U2	.2736E-05	.2628E-06	.3776E-02	,2663E-37	.2734E-02
.8900E 01	,9703E=01	.9720E-02	.2550E-05	.2474E-06	.3A02E-02	.2479E-07	.2706E=J2
	,9800E-01	.1240E-01	,2376Ē-uō	.2329E-06	.3926E-02	.2946E-07	.2769E=02
.9100E 01	.9924E=01	,1240E-01	.2214E-05	.2197E-06	39485-02	.2746E-07	.2791E-02
,9200E 01	.1005E 00	,9200E-02	.2063E-05	.2073E-06	.3879E-02	.1898E-07	,2794E=02
.9300E 01	.1014E UQ	.92U0E-U2	.1922E-05	.1949E-06	.3690E=02	.1768E-07	.2796E=02
,9400E 01	.1023E 60	,5401E-02	.1791E-05	.1832E-06	+3909E=02	.9672E-08	.2798E=02
.9500E 01	,1029E 00	.540ÛE-û2	.1668E-05	.1716E-06	.3926E-02	.9009E-08	.2797E=02
	.1034E 00	.25(16-02	1554E-05	.1607E-06	.3943E-02	.3886E-08	.2799E=02
	,1036E UU	.2500E-62	.1440E-05	.1501E-06	.3958E=02	.3619E-08	.2009E-02 .200JE-02
	,1039E 00	.5006E-03	.1348E-C5	.1401E-06	.3973E+U2	,6750E-09	.2800E=02
.990UE 01	.1039E LO	.5000E-03	,1256E=05	.1306E-06	3986E-02	.6280E=09	.2800E=32
	.1040E 00	-,2959E-02	.1170E-05	.1217E-06		-,3462E-08	.28006-02
.1010E 02	.1037E 00	-,2960E-02	10 596-05	.1130E-06		-,3225E-08	.280JE-02
.1020E 02	.1034E 00	2960E-02	.1014E-05	.1049E-06	.4022E=02	-,3003E-08	.2799E=02
		2960E-02	.9447E-06	.9741E-07	40325=02	-,2796E-08	.2799E=02
			.6797E-06	.9045E-07	4041E-02	-,2604E=08	.27 49E=02
		-,5039E-02	81 91E = U6	.0397E-07		-,4128E=08	.2798E=02
.1060E 02	.1020E 06	5040E-02	.7027E-06	.7780E = 07	40455-02	-,3844E-08	.2793E=32
	,1015E 00	-,5040E-02	.71J1E-U6	.7208E-07	4.1726-02	-,3332E-08	2793E-02
.1080E 02	,101UE GO	-,5040E-02	.6611E-06	.6677E-07	40725-02	3102E-08	2797E-J2
.1090E 02	.1005E 00	5040E-02	.6154E-06	.6185E = 07		-,4566E-03	.2797E-02
	.10005 00	-,7969E-U2	.5729E=06	.5729E+07	40005-02	4251E-08	2797E-U2
.1110E 02	,9920E=U1	797UE+u2	,5333E-06	.5291E-07		-,3957E-08	2796E+J2
.1120E 02	,9841E-01	7970E-02	.4965E=06	.4885E-07		-,3683E=98	2796E-02
.1130E 02	,9761E-U1	7970E-02	.4621E=05	.4511E = 07	41045-02	3428E-08	2795E-02
.1140E 02	.9681E-01	-,7970E-02	4301E=06	.4164E-07	441045402	-,3055E-08	.2775E-02
1150E 02	.9602E=01	-,7630E-02	4003E=06	.3549E-07	.41126=02	-,2843E-08	.2795E-02
.1160E 02	.9525E-U1	7630c=02	,3726E=06	.3276E-07	.41156-02	-,2646E=08	2795E-02
1170E 02	.9449E=U1	-,7630E-02	.3460E=06	.3025E-07	41105-02	-,2462E-08	2794E-02
1180E 02	.93/3E=01	-,7630E-02	.324/6-00	.50252-07	1 711 76 - 02	10.000	

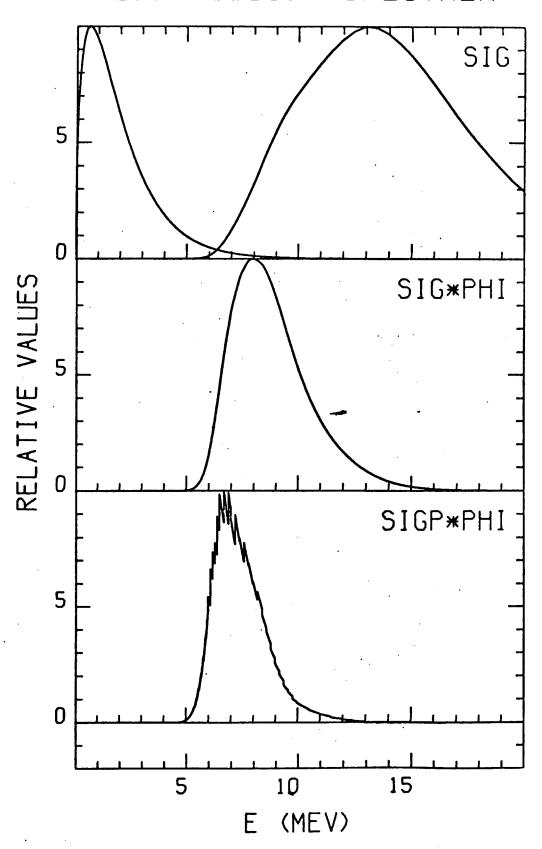
5	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
E,	310	310.	. •			00015 00	27245-02
,1190E 02	.9296E=01	-,7630E-62	.3603E-06	.2792E-07	.4121E-02	-,2291E-08	.2794E=02
1200E 02	.9220E-01	-,7926E-02	,2795E-06	.2577E-07	41248-02	2215E-08	,2794c+02
.1210F 02	.9141E-C1	7926E-02	.260UE-U6	.2377E-07	412/5-02	-,2061E-08	.2793E=U2
.1220E 02	.9061E-01	7926E-02	.2420E-06	.2193E-07	41295-02	1918E-08	.2793E-02
.1230E 02	.8702E-U1	-,7926E-02	.2251E-06	.2022E-07	.4131E-02	1785E-08	.2793E=02
.1240E 02	.5903E-01	-,7926E-ú2	.2095E-06	.1865E-07	.4133a=02	1660E-08	2793E-02
.1250E 02	.8824E-01	-,6475E-62	1749E-06	.1720E-07	4137E=UZ	-,1262E-08	.2793E=02
.1260E 02	,8759E=61	6474E-02	.1613E-06	.1588E-07	41305-02	1174E-08 1092E-08	.2793E-02
.1270E 02	.3694E=U1	-,64746-02	.1667E-06	.1467E-07	441305-02	-,1016E-38	.2793E-J2
.1280E 02	.8629E=01	6474E-02	.1570E=U6	.1354E-07	4109E-02	-,9453E-89	2792E=02
.1290E 02	. 3565E-01	-,6474E-02	.1460E-06	.1251E-07 .1155E-07	41425-02	9307E-09	.2792E=U2
.1300E 02	.0500E=01	6552E-U2	.1356E=06	.1065E-07	.4143==02	8658E-09	.2792E=02
.1310E 02	.04315-61	-,6652E-02	.1264E-06	.9830E-06	41445-02	-,8054E-09	.2792E-02
.1320E 02	.6363E=U1	-,6+52E-02	.1175E-06 .1993E-06	.9069E-08	4145F-02	-,7492E-19	.2792E-02
.1330E 02	.6294E-U1	-,6552E-02	.1017E-06	.0366E=08	4146F-02	6968E-09	.2792E-J2
.1340E 02	04575 U	6852E-02	9459E=67	.7716E-08	4147 = - G2	-,7329E-09	.2792E-02
.1350E 02	#12/E=01	-,7748E-02 -,7748E-02	6798E-07	7109E-08	.4147E-02	-,6317E-09	.2792E≠52
.1360E 02	1000E=01	7748E-02	.8133E-07	.6549E-08	.4148E-02	-,6340E=09	.2792E-02
.1370E 02	70255-01	7748E-62	.76112-07	.6032E-08	.4149E-02	-,5897E-09	.2742F-05
.1380E 02	7 4 4 7 1 = 01	-,7740E-U2	,7076E-97	.5555E-08	41495-02	5484E-09	.2792E-02
.1390E 02	77705-01	-,7452E-02	.6563E=07	.5115E-08	.4150E-02	4906E-09	,2792E=02
.1400E 02 .1410E 02	76956-01	-,7452L-U2	.6122E-07	.4711E-08	.4150E-02	-,4562E-09	.2792E=02
.1420E 02	7621F-U1	7452E-62	.5693E-07	.4339E-08	.4151E-02	4243E-09	.2792E=02
1430E 02	.7546F-01	-,7452E-02	.5244E-07	.3995E-08	.4151E-02	3945E-09	.2792E=02
.1440E 02	7472=-11	7452E-62	.4923E-U7	.3679E-08	4151E-02	3669E-09	.2792E=02
1450E 02	.7397E-01	7548E-02	.4578E-07	.3387E-08	.4152E-02	-,3639E=09	.2791E=02 .2791E=02
.1460E 02	.7316E-U1	- ,7 y4 dE-62	.4257E-07	.3115E-08	41525-02	3384E-09	.2791E=02
.14/0E 02	.7238E-01	7948E-02	.3959E-07	.2865E-08	41725-02	-,2926E-09	2791E-32
.1480E 02	.7159t-01	7948E-02	.3681E-07	.2635E-08	41535-02	-,2720E-09	2791E-U2
.1490E 02	.7079E-01	-,7948E-02	3422E=07	.2423E-08	41536-02	-,2289E-09	2791E-02
.1500E 02	.7000E-01	7192E-02	.3162E=07	.2050E-08	4153F=02	-,2123E-09	.2791E=02
,1510E 02	.6928E-01	-,7192E-U2	.2959E=07	.1886E-08	.4154F-02	1978E-09	.27916-U2
.1520E 02	.6556E-U1	7192E-02	.2751E-07 .2550E-07	.1735E-08	4154E-02	1839E-09	.2791E=u2
.1530E 02	.6/84E=01	7192E-02	.2376E-07	.1596E-08	.4154H=02	1710E-09	.2791E+02
.1540E 02	.0/12E=01	-,7468E-U2	.2211E-07	.1468E-08	.4154E-02	-,1638E-J9	.2791E=02
.1550E 02	45445-01	7408E-02	2055E-07	.1349E-08	.4154E-02	1522E-09	.2791E-02
.1560E 02	4400E=01	-,7408E-02	.1911E-07	.1240E-08	,4154E-02	1415E-09	.2791E-02
.1570E 02	64166-01	-,7408E-02	.1776E-07	.1140E-08	.41556-02	1316E-09	.2791E-U2
.1590E 02	6344E=61	-,74ubE-02	.1651E-c7	.1047E-08	.4155E-02	-,1223E-09	.2791E-02
1600E 02	.6270E=01	■.77m6E=02	.1535E-07	.9623E-09	.4155E-U2	1195E-119	.2791E=02
.1610E 02	6192E-C1	7786E-04	.1427E-07	,6835E-09	.4155E=02	-,1111E-09	.2791£=J2
1620E 02	.6114E-41	77:0E-02	.1326E-07	.8109E-09	.4155E=02	1033E=09	.2791E=02
.1630E 02	.6u36E-u1	77:6E-02	.1233E-07	.7442E-09	41555-02	-,9598E-10 -,8922E-10	.2791E-32
.1640E 02	.5959E-U1	-,77ゃ6E-02	.1145£-07	.6828E-09	41775=UZ	7604E-10	.2791E=U2
,1650E 02	.5881E-01	-,7214E-02	.1005E=07	.6264E-09	41335-04	-,7142E-10	2791E-U2
.1660E 02	,5309E-U1	7214E-02	.990JE=08	.5751E-09	.41550-02	663BE-10	2791E-32
.1670E 02	.5736t=01	-,7214E-02	.9232E=00	.92/9E-09	.4155F=02	6170E-1U	2791E-02
.1680E 02	,5664c-U1	7214E-02	.8553E=08	• 40475-04	1 1000-06	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

AL-27(N.P)HG-27 U-235 FISSIZN SPECTRUM

٤ (SIG	SIGP	PHI	SIG+PHI	F	SIGPOPHI	G
.1690E 02	.5592E-01	7214E-02	.7949E-08	.4445E-09	.4155E-02	-,5735E-10	.2791E-02
.1/00E 02		7038E-02	.73∂8E-ua	.4078E-09		-,5200E-10	.2791E-02
.1710E 02		7u38E-02	.6867E=0ê	.5742E-09	.4155E-02	-,4833E-10	,2791E-02
.1/20E 02	.5379E=U1	-,7036E-02	.6332E=Uo	.3433E-09	.4155E-02	-,4492E+10	.2791E-U2
.1750E 02		7438E-42	,5931E-08	.3149E-09	.4155E-C2	4174E-10	.2791E-02
.1740E 02		7u38E-02	.5512E-08	.2888E-09	.4156E-02	-,3879E-10	.2791E-02
.1750E 02	.5168E=01	7761E-U2	.5123E-U8	.2647E-09	.4156E=92	-,3976E-10	.2791E-u2
.1760E 02		7762E-02	.4761E-03	.2423E-09	.4156E=02	-,3695E-10	.2791E-02
1770E 02	.5013t-01	-,7762E-02	.4424E-08	.2218E-09		-,3434E-10	.2791E-UZ
.1780E 02		7762E-02	.4111E-06	.2029E-09		-,3191E-10	.2791E-02
.1790E 02		7762E-02	,3021E-06	.1856E-09		-,2966E-10	.2791E-u2
.18U0E 02	4760E=61	-,7500E-02	.355∪E=0a	.1697E-09		-,2698E-10	.2791E-32
.1810E 02	47045-01	7600E-02	.3299E-08	.1552E-09		-,2507E-10	.2791E-u2
.1820E 02		7600E-02	.3066E=08	.1419E-09		-,233GE-10	.2791E=02
.1830E 02	4552E-U1	7600E-32	.2649E-08	.1297E-09		2165E-10	.2791E-02
.1840E 02	.4476E-01	7600E-02	.2647E=98	.1185E-09		-,2012E-10	.2791E-02
1850E 02	.4400 = - 61	7o00E-02	.2466E=08	.1082E-09		-,1869E-10	.2791E-L2
.1860E 02	.4324E-61	7000E-02	.2285E - 06	,9883E-10		-,1737E-10	.2791E+12
.1870E 02		-,76U0E-u2	.2124E=UB	.9021E-10		1614E-10	.27 +1E=U2
.1880E 02	.4172E-01	-,760UE-02	.1973E-08	.8232E-10		150CE-19	.2791E-02
.1890E 02	.4096F-01	7600E-02	.1633E-08	.7510E-10		-,1393F-10	.27 91E-02
.1900E 02	.4u20c=01	7630E-02	,17∪3E - 06	.6848E-10		-,1300E-10	.2791E-02
.1910E 02		763UE-02	.15ċ3E−0b	.6242E-10		-,12085-10	.2791E-02
,1920E 02	,3867E-01	 7630E-02	.1471E-05	.5687E-10		11225-10	.2791E-U2
.1930E 02	.3791E-01	763UE-02	.1366E-09	.5180E-10		10425-10	.2791E-J2
.1940E 02		-,7630E-02	.1269E-მგ	.4715E-10		-,9685E-11	.2791E-02
.1950E Q2	,3639E≕01	-,83696-02	.1179==06	.4291E-10		9870E-11	.2791E-02
.1960E 02	35556-01	-,6370E-u2	.1096 E- 08	.3895E-10		-,9171E-11	.2791E-02
.1970E 02		8370E-02	. 101 3E-08	.3533E-10		-,8520E-11	.2791E-02
.1980E 02		-,8370E-02	.9457E-U9	.3203E-10		-,7915E-11	.2791E-J2
.1990E 02	.3304E-01	-,8370E-02	.8786E-09	.2902E-10	.4156E-02	-,7353E-11	.27 91E-02

SPECTRUM AVERAGE CHESS SECTION = .4156E-02

AL-27(N, ALPHA)NA-24 U-235 FISSION SPECTRUM



L	51G	SIGP	PhI	SIG*PHI	F	SIGP PHI	G
٤,	310		-			22225 25	
.3300E 01	,4615E-22	,8995E-21	.11u4E-03	.5094E-26	.1346E-24	.9929E=25	,5275E=23
3400E 01	.1301E-21	.89976-21	,103aE=03	.1413E-25	.1110E-23	.9340E-25	.1490E-22
.35UDE 01	.2260=-21	.99;5 E- 21	.9762E-04	.2207E-25	.2733E-23	,8781E-25	.2396E+22
.3600E 01	.3150r=21	.1965E-1d	.91/5E-04	.2899E-25	.34975-23	.1803E-22	.5J41E-22
.3700E 01	3254==10	,2337E-16	.8619E-U4	.2804E-22	.4380E-21	.2014E-20	.30336-19
,3800E 01	3350E-15	.1522E-13	.5u95E-U4	.2712E-19	.4082E-18	.1313E-17	.2867E-16
.39U0E 01	28846-13	.1068E-11	.7599E-N4	.2191E-17	.5 32F-16	.8120E-16	.2306E-14
4000E 01	8350E-12	.2511E-10	.7132E=04	.5955E-16	,19219-14	.1791E-14	.62368-13
.4100E 01	.1422E-10	,3528⊑-09	.6691E-U4	.9516E-15	.3547E-13	,2360E-13	.9979E-12
.4200E 01	1450E-09	.3643E-08	.6276E=44	.910UE-14	.4111E-12	.1910E=12	.9554E-11
.43U0E 01	.1076E-08	,1936E-u7	.5664E - 64	.6330E-13	.3281E-11	.1140E-11	.6656E-1J
.440UE 01	.576UE-U6	,93u5E=u7	.5516E=64	.3288E-12	.19815-10	.5132E-11	.3467E=119
.4500E 01	2679=-07	,3676E - ∪6	.5169E=U4	.1385E - 11	.046nE-13	.1901E-10	.1465E=J3
.4600E 01	130000	.12106-05	.4843E-04	.4843E-11	.3757E-09	.5900E-10	.51476-05
.4700E 01	. 3252E-U6	,3546E-05	.4537E-04	.1475c-10	.1277E-08	.1609E=09	.1575E-07
.4800E 01	93205-66	• 9115ビー()ブ	.4249E-04	.396UE-10	.3-26E=08	.3373E=09	.424 vE-J7
.49U0E 01	.2411E-05	.2135E-J4	.3975E-04	.9590E-10	.1.25E-07	.8442E=19	.1035E-66
5000E 01	.5690E-05	.4479E-04	.3724E=u4	.2119E-09	.2503E=07	.1668E-08	.2300E-75
.5100E 01	.1246E-U4	,8934E-04	.3405E=04	.43445-09	, 3613∈ - 07	,3121E=U8	.4746E=G6
5200E 01	2550E-04	.15c4E-03	,3261E=04	.8316E-09	.1175b=06	.549 UE - U B	.9150E-06
,5300E 01	4924E-04	.2990E=J3	.3051E-J4	.1502E-03	.2312E-06	.9121E=08	.1665E-05
.5400E 01	90202-04	.5672E-03	.2054E-04	.2574E-08	.4308E-06	.1447E-07	.2876E-05
,5500E 01	.1>80E-J3	.8196E-C3	.2669E=G4	.4218E-08	.76455-06	.2186E-07	.475uE=115
5600E 01	.2650E=03	.1267E-02	.2476E-U4	.6613E-08	,1298E-05	.3162E-07	.7514E=05
5700E 01	,4270E-03	.1909E-02	.2333E=04	.9963E-08	21175-C5	.4453E-07	.1143E-04
,5800E 01	.667UE=U3	.2773E-02	.2131E=04	·1455E=07	.3331E-05	.6048E-07	.1665E=U4
,5900E 01	.13106-02	.3935E-02	,2639E - 04	.2059E-07	.5173E-05	.8021E-07	.2409E-14
.6000E 01	,1490E-02	.65uUE=02	.19uɔE=04	.2833E-07	.7505E-05	.1238E-06	.3357E-64
.6100E 01	2140=-02	.8500E-02	.1750E=04	.3809E-07	.10856-04	.1513E-J6	.4558E-04
.6200E 01	2990E-02	.1010E-01	.1603E=04	.4972E-07	.19268-04	.1680E-06	.6022E=04
.6300E 01	40002-02	.1140E+01	.1553E-04	.6213ē - 07	.2487E=04	,1771E-C6	.7648E=04
.64U0E 01	5140E=02	.1460E-01	.1451E=64	.7457E-G7	.2773∺⇒34	.2031E-06	.9362E=04
.6500E 01	63408-02	,1660E-01	.1355E-U4	.8861E-07	.3592E-04	.2249E=06	11336-73
.6600E 01	.3200E-U2	.16/GE=G1	.12o5E=J4	1037E-06	.4556E-04	.2113E-06	.1350E=33
.6700E 01	.9870E-02	.1930E-01	.1151E-04	.1166E-06	.5661E=04	.2280E-06	.1555E=US
.6800E 01	.11806-01	.1980E-01	.11u3E-04	.1301E-06	.6997F=04	.2095E-06	.1775E=13
.6900E 01	,1370E-01	.2200E-61	.1029E-04	.1410E-06	.2255E-04	.2265E-06	.1978E=33
.7000E 01	.1590E-U1	.21⊍UE-U1	.96∪9E+35	.1528E-06	,9727E=04	,2018E-06	.2196E=03
.7100E 01	18005-01	.2100E-01	.8956 E- 05	.1614E-06	.1130E-03	.1883E-06	.2391E=J3
.7200E 01	.2J10E-U1	.2450E-01	,8369E=05	.1682E-06	.1295E=03	.2050E-06	.2573E=03
.7300E 01	.2255e=01	,2450E-01	.7809E - 05	.1761E-05	.1467E-03	1913E-06	.2771E=03
.7400E 01	.25008⇒01	.2500£-01	.72J6E⇒05	.1821E-06	.1647E-03	,1821E-06	.2956E=03
.7500E 01	.2750E-01	.2500E-01	.67975-05	.1869E-05	.15316+03	1699E=36	31326-13
.7600E 01	.30302-01	.2800E-01	.6341E=65	.1902E=06	.2920E=03	1775E-06	.3296E=03
.7700E 01	.32806-01	.2800E=01	.5914E-05	.1940E-06	.2212E-03	,1656E-06	.3460E-13 .3620E-13
.7800E 01	.3560E-01	.2050E-01	.5516E-05	.1964E-06	.2408E=03	.1572E=06	.3740E=03
.7900E 01	.3345E-01	,2050E=01	.5144E-05	.1978E-06	.2005E=03	,1466E-J6	.3921E-J3
.0000E 01	.4130E-01	.29JUE-01	.4797E=05	.1981E-06	.2303E=03	,1391E+06	.405>E=03
.8100E 01	.4420E-01	,2900E-01	4473E-05	.1977E-06	.3001E-03	1297E-06	.4161E-03
.0200E 01	.471JE-U1	.3160E-01	.4171E=05	.1964E-06	.3198E-U3	.1293E-06	*41015-00

£	SIG	SIGP	b H1	SIG*PHI	F	SIGP*PHI	G
		21.465	.3888E-05	.1952E-06	,33945-03	.1205E-06	.4306E+13
.6300E 01	.5020E-01	.3100E=01	.3625E=05	.1932E-06	.3588E-03	.1069E-06	.4422E=03
.64U0E 01	.5330E=01	.2950E=01	3379E=05	.1901E-06	3780E-03	.9969E-37	.4525E-U3
.6500E 01	, 2625E-111	.2450E-01 .2050E-J1	.3150E=03	.1865E-06	.3968E-03	,8977E=17	.4621E=03
. 0600E 01	.59206-u1	20205-01	.2936H=05	.1822E-06	4152E-03	8367E-07	.47∪8E-03
,5700E 01	.0205E=01	.2d50£-01	.2730E=05	.1776E-06	.4332E-03	.7251E-07	.4769E=03
.6800E 01	.6490E-01	.2650E=01	.255JE=U5	.1722E-06	.4507E-03	6757E-07	.4859E-03
.0900E 01	.0755=01	.2650E-91	.2375E=05	.1668E-06	4677F=03	5622E-07	.4924E=U3
.9000E 01	.7J20E-01	.2450E-01	.2214E-05	.1609E-06	,4340E=03	.5425E-07	,4900E-03
.9100E 01	.7265c-u1	.2450E-01	.2063E-05	.1549E-06	49985-03	4745E-07	.5032E-03
,9200E G1	.7510E-01	.2300E-01	.1922E=05	.1488E-06	.5150E=03	4421E+07	.5078E-03
.9300E 01	7740E-01	.2300E-01	.1791E=05	.1427E-06	.5296E=U3	3671E-17	.5121E=03
,9400E 01	.7970E-01	,2050E-01	1050E=05	.1364E-06	.5435E=03	.3420E-07	,5150E=∪3
.9500E 01	.3175=-01	.2u50E-01	.1554E=05	1302E-06	55696-03	.3031E-07	,5109E-03
.9600E 01	.3380E-U1	.1950E-01	.1446E-U5	.1241E-06	5696E-03	.2823E-07	,5219E-03
.9700E 01	.8575E-01	.1950E=U1	1348E-05	.1183E-06	56176=03	,2360E-07	.5246E - 03
.9800E 01	.6770E-C1	.1750E=01	1250E-U5	.11235-05	5932E-03	.2198E-07	.5269E=∪3
,9900E 01	.8945E-01	.1750E-01 .16c2E-01	1170E-05	.1067E-06	.6042E-03	,1968E-U7	.529∪E≖63
,1000E 02	,9120E-01	.1652E-01	1059E-05	.1012E-06	.6146E=03	.1033E-07	.5309E-03
.1010E 02	,9268E=U1	.1652E-01	1014E-05	.9594E-07	.6244F=03	.17075-07	.5326E=∪3
.1020E 02	.9456E+01	.1602E-01	944/E-U6	.9093E-07	.6337E-03	.1589E-07	5343E-JS
.1030E 02	, y6256=01	1002E-01	5747E-06	.6615E-07	.6426E-03	.1460E=07	.5350E=03
.1040E 02	.9793E-01 .9961E-01	.1578t-01	6191E-06	.6159E-07	.6510E-03	.1292E+07	.5372E-03
.1050E 02	.1012E 00	.1578E-01	.7627E-06	7717E-07	,6589E=03	.1203E-07	5365E=03
.1060E 02	.1012E 00	.1578E-01	7101E-06	.7297E-07	.6664E-03	,1120E-07	.5397E=∪3
.1070E 02	.1043E 00	.1578E-01	.6611E-06	6898E-07	.6735E-03	.1043E-07	.54u7E-u3
.1080£ 02	.1059E 00	.1578E-01	.6154E-96	.6519E-07	.6902E=03	.9709E=08	.5417E-US
1090E 02	10756 00	.1406E-U1	.5729E-U6	.0159E-07	,6⊹65F=03	.8514E-08	.5427E=03
,1100E 02	.1090£ UU	1436E-J1	.5333E-36	.5813E-07	.0925E-03	.7925E-08	,5435E=03
.1110E 02	.11056 6C	.1426E-01	.496JE=06	.5484E-07	.6982E-03	.7377E-08	.5443E-03
	11206 60	.1426E-01	.4621E-05	.5174E-07	.70358-03	,6667E-08	.5450E-03
.1130E 02	.1134E UU	1406E-U1	.43u1E-06	.4879E-07	.7065E=03	.6391E=98	.5456E=(3
	1149E DO	.1254E-01	4003E=06	.4601E-07	.71336-03	.5020E-08	,5463E=03
	1162E 00	.1254E-01	.3725E-06	.4329E-U7	.71776-03	.4672E-98	5467E-03
.1160E 02	1174E UU	.1254E-01	340bE-06	.4072E-07	.7219E-03	.4348E-08	,5472c+33
,1180E 02	1167E (0	.1254E-01	.3227E-06	.3830E-07	.72595-03	.4047E-08	.5476E-03
.1190E 02	,1199E UC	.1254E-01	.3003F-06	.3602E-07	.7296E-03	.3766E-08	.5480E-U3
1200E 02	,1212± CU	.9651E=u2	.2795E-06	.3387E-07	.7331E-03	.2705E-08	.5484E=03
.1210E 02	,1222E UG	.960UE-02	.260JE-06	.3177E-07	.7364E=03	.2517E-0d	.5486E=03
1220E 02	1231E 00	9680E-02	.242UE-06	.2980E-07	.7394E-03	.2342E-08	.5489E-03
.1230E 02	1241E 00	9580E-02	.2251E-06	.2794E-07	.7423E-03	.2179E-08	5491E=63
,1240E 02	1251E CO	.900UE=U2	.2095E-65	.2620E-07	.7450E-03	.2026E-08	.5493E=03
.1250E 02	.1260£ 0J	.5522E-02	.1949E-U6	.2457E-07	,7476E-03	.1076E-56	.5495E=03
.1260E 02	1266= 00	.5520E-02	.1013E-06	.2296E-07	.7499E-G3	.1001E-38	.5496E=U3
.1270E 02	1271E 00	.5520E-02	.1607E-06	.2145E-07	.7522E-03	.9313E=09	
.1280E 02	1277E UU	.5520E-02	.1570E-U6	.2004E-07	.7542E-03	.8664E=119	.5493E → u 3 .5499E → u 3
1290E 02	.1282E UU	.5520E-02	,1460E-06	.1873E-07	.7562E=03	8060E=09	.5499E=U3
.1300E 02	.1285E UU	-,1717E-02	.1350E-06	.1750E-U7	.7580E-03	-,2332E-09	.5499E=03
1310E 02	.1286E VU	1720E-02	.1264E=06	.1625E-07	.7597E-03	-,2173E=09	.5499E-03
,1320E 02	.1285E 0U	-,1720E-02	,117>E-U6	.1510E-07	,7612E-03	2022E-09	*34335-00
110105 05		• -					

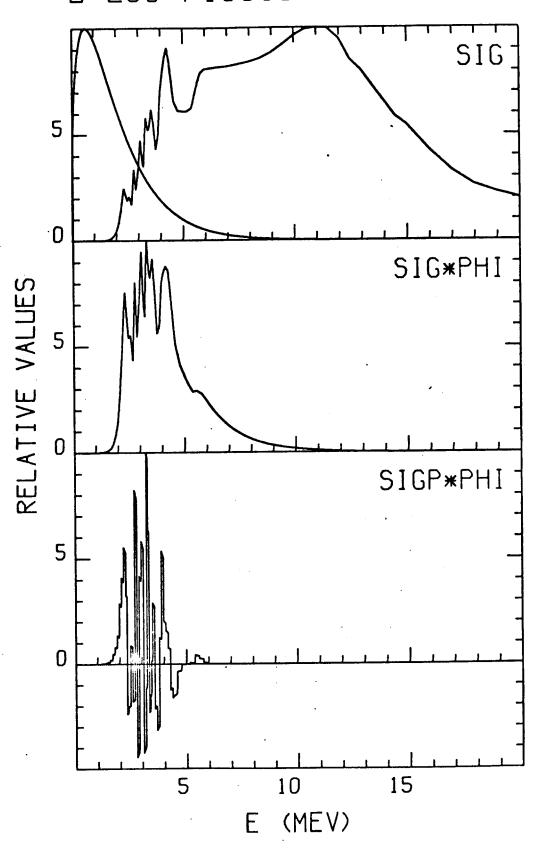
E .	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.1330E 02	.1283E 00	1720E-02	.1393E-06	.1403E-07	.7627E=03	1881E-09	.5499E=03
.1340E 02		1720E-02	.1017E=06	.1303E-07		1749E-09	.54 49E=03
.1350E 02	.1279E 00	6476E-C2	.9459E=07	.1210E-07		6128E-09	.5498E-US
.1360E 02	.1273E 00	645UE-02	.8790E-J7	.1120E-07	.7565E-03	5701E-J9	.5496E=03
.13/0E 02	.1266É GU	-,6430E-u2	.0103E-U7	.1036E-07	.7675F-03	-,5303E-09	.5497E-U3
.1380E 02	• -	6400E-J2	.7611E=U7	.9589E-08	.7685E-03	-,4932E-69	.5497E-33
.1390E 02	• -	-,64AUE-U2	.7075E - 07	.8873E+08	.7594F=03	-, 4587€-09	.5496E=u3
.1400E 02	•	1tó8t-ü1	.65 d3E=07	.8209E-09		7029E-59	,5496E≈03
.1410E 02	•	10ocE-01	.6122E=07	.7569E-0d		-,6538E-09	.5495E=93
.1420E 02		1068E-01	.5693E-07	.6978E-08		-,6081E-09	.5495E=C3
.1430E 02		-,1J68E-01	.5294E-07	.6433E-08		-,5655E-ny	.5494E=03
.1440E 02		1068E-01	.4923E=U7	•5929E=08		-,5258E-09	.5493E=J3
.1450E 02	-	1292E-01 1292E-01	.457⊍E=07 .4237E=07	.5465E-08		-,5915E-09	,5493E=03
1470E 02	•	1292E-01	.3959E=37	.4623E=00		5500E-09	.5492E-03
.1480E 02		1292E-u1	.3001=07	.4251E+08	-	4756E-09	.5492E=03 .5491E=03
1490E 02	•	-,1292E-01	.3422E-07	.3908E=08		-,4422E-09	.5491E=03
1>00E 02		1230E-01	.3182E-07	.3593E-08		4894E-09	.5490E=u3
.1510E 02		1538L-U1	.293yE=07	.3295E-08		4550E-U9	5490E=03
1520E 02		1536E-U1	27515-07	.3021E-08		-,4231E-09	5490E-03
.1530E 02	•	1530E-u1	.2558E-07	.2769E-08		3933E-09	5489E=03
.1540E 02	• -	1>38E-01	,2370E-U7	.2536E-08		3657E-19	5469E=J3
.1550E U2	•	1042E-01	.2211E-07	.2326E-08		3630E-09	.5486E-03
.1560E 02	.1036E CO	1612E-u1	,2055E-07	.2128E-0 a	.7776F = C3	3374E-09	.54 no E = 03
.15/0E 02	.1019E UU	1642E-U1	.1911E=07	.1947E-08	.7778E-03	-,3137E-09	.5488E=u3
.1500E 02	.1083E 00	1642E-01	.1776E-07	.1781E-08	.7780E-03	2916E-J9	.5487E=83
.1590E 02	•	1642E-01	.1651E-07	.1629E-08		-,2711E-09	.5487E-03
.1600E 02	•	1719E-61	.1535E=07	.1489E-08		2638E-09	.5487E+ù3
.1610E 02		1719E-U1	.1427E-07	.1359E-08	-	2452E-09	.5487E=03
.1620E 02		1719E-C1	.13202-07	.1241E-08		-,2280E-U9	.5486E-U3
.1630E 02		1719E-01	.1233E-07	,1132E-08		2119E-09	.5486E-03
.1640E 02	•	1719E-61	.1146E-U7	.1033E-08		1970E-09	.5486E-03
1650E 02	• • • • • •	15u1E-01	1005E-07	.9416E=09		1918E-09	5486E=03
.1660E 02	• -	1e01E-01	.9900€=08	.5574E-09 .7804E-09		1783E-09	.5486E=03
.16/0E 02		1001E-01 1001E-01	.9202E=08	.7099E-09		-,1657E-09	.5485E=03
.1690E 02	•	1801E-01	.7949E=08	.6455E-09		-,1432E-09	.5465E=03
.1700E 62		1643E-01	.7380E-08	.5866E-09		-,1214E-09	.5435E-U3
1710E U2	•	1643E-U1	.6007E=68	.5339E-09		1128E-09	.5485E=03
1720E 02	•	1643E-01	.63°2E=03	.4858E-09		-,1048E-09	.5455E-03
.1730E 02		1643E-U1	.5931E-U3	.4417E-09		9742E-10	5485E-03
.1/40E 02		1043E-01	.5512E-06	4014E-09	_	-,9054E-10	.5485E-03
.1/50E 02		14,8E-01	.5123E-J8	.3647E-09		7671E-10	.5464E=93
•1760E 02	,6969£=01	-,1497E-01	4701E-18	.3318E-09	,7795E=03	-,7129E-10	5484E-03
.1770E 02	,od19==U1	-,1497E-31	.4424E-08	.3017E-09	.1796E-03	66255-10	.5464E=03
1780E 02	•	-,1497E-01	.4111E=08	.2742E-09		6156E-10	.5484E-u3
1790E 02		-,1497E-01	.3021E-08	.2491E-09		-,5721E-10	.5484E-03
.1800E 02		1433E-U1	.3550E=03	.2262E-09		5096E-10	.5434E-03
1810E 02	•	1433E-01	.3299E-08	.2054E-09	•	4726E-10	.5484E=03
.1820E 02	.0083E-01	-,1433E-01	.3u66E=08	.1865E-09	./797E-03	43925-10	.5484E-03

AL-27(N, ALPHA) NA-24 U-232 FISSINN SPECTRUM

Ę	SIG	SIGP	bh I	SIGOPHI	F	SIGPOPHI	G
.1830E 0	2 .5940=-01	-,1433E-01	.2849E=68	.1692E-09	.7797E=03	4081E-10	.5404E=03
.1840E 0	2 .5797E=u1	-,1433£-01	.2647E=Ús	.1535E-09	.7797E-03	3792E-10	.5484E-03
.1450E 0	2 .5654E=01	-,1347E-01	.2460E-118	.1391E-09	.7797E-03	3314E-10	5404E-03
.1860E U	2 .5519E=01	1347E-01	.2200E-03	.1261E-09	.7798E-03	3080E-10	.5484E=03
.1870E 0	2 .5384E=01	1347E-01	.2124E-05	.1143E-09		-,2861E-10	.5484E-J3
.1880F 0	2 .5249E-01	1347E-U1	.1973E-06	.1036E-09	.7798E-03	-,26>9E-10	.5464E+U3
.1890E 0	2 .51156-01	1347E+01	.1833E=08	.9377E-10		2470E-10	.5454E=US
.1900E 0	2 . 4 7 6 0 6 = 01	-,1273E-01	.1703E-08	.6483E-10	.7798E-03	2168E-10	.54d4E+U3
.1910E 0	2 ,4853E-01	1273E-U1	.1533E-Ca	.7681E-10		2014E-10	.5484E-U3
.1920E 0	2 .4725=-01	1273E-01	.1471E-08	.0949E=1U	.7798E=03	1871E-10	.5484E=03
.1930E 0	2 .4598E-01	1273E-J1	.1366F-08	.6282E-1J		1739E-10	.54 84E = 03
.1940E 0	2 .4471E-01	-,1273E-01	.1269E=0d	.5675E-10		1615E-10	5484E=03
.1950E 0	2 .4344E-U1	1038E-01	.1179E-08	.5123E-10		1283E-1U	.5464E=03
1960E 0	2 .42356-01	-,1057E-01	.1096E-ud	.4640E-10		11915-10	5484E-03
.1970E 0	2 .4126E-u1	10n7E-J1	.1018E=u8	4200E-10		1107E-10	.5484E=93
.1980E 0	2 .4017E-01	10a7E-01	.9457E=(19	.3799E-10		- 1028E-10	5484E-03
.1990E 0	2 .3909E=U1	108/E-01	.6706E-09	.3434E-10		-,9553E-11	.5454E=U3

SPECTRUM AVERAGE CRESS SECTION = .7798E+03.

S-32(N,P)P-32 U-235 FISSION SPECTRUM



E	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PH	I G
.1000E 0	1 ,12806-04	1 1000 0				J.Gr.PA	4 4
.1100E 0	- 144001	1		*		7 .42715-07	.4549E=05
.12U0E 0					75265-0		
1300E 0					7 .2010=-n=		14447
.14U0E 0	- 1-1-0- 00			.3558E-07	4635=-05	37496-06	
.1>00E 0				.7026F=u7		7332E=06	10,202-04
.16UDE 0	_ ,			•1377E=06	.2045E-04	.1407E-05	
.1/00E 0	1 .1500E=02			.2664E-06	.4383E+04	23846-05	
.18UOL 0				.4822E-06	.7954E-n4	.5894E=15	
.1900E 01	1 4000 <u>6</u> -02	.3000E-01		.1022E-05	.1545E=03	.9707E=05	
.2000E 01		.6706E-01	.24328-03	·1897E-05	3016=03	.1629E=04	
.2100E 01		•1700E 00	.2312E-US	.3353E-05	.5561E=03	.3463E=04	,
.2200E 01		.27>0E 00	.2196E=J3	.6477E-05		_	
.2300E 01		.3200E 00	.2083E-03	.1083E-04	1 4 0 0 C U Z		.7000E+02
.24U0E 01		.2000E 00	,1973E-u3	.1653E-04	.33125-02		.1139E-01
.2500E 01		1350E 00	.185cE-03	.1616E-04	.5433E=02	.3947E=04	.1835E - u1
		.6000E-01	.1767E-03	.1290E-04	• 5482E-02		.1832E⇒J1
		1370E 00	.1670E=03	.1319E-04	77476 22	.1060F-04	.1640E=01
.2700E 01		.630UE 60	.1577E-J3	.1041E-04	#043 = 00	-,2170E-04	.174JE-U1
.2800E 01			.1400E-J3	1919E-04	.8963E-02	99335-04	.1541E-01
. 2900E 01	,	.3000E 06	.1403E-03	.1305E-04	+1046E-01	-,5356E-04	.2491E-01
.3000E 01	.1290E 60	.jjjue oo	.1323E-03	.1706E-04	1206F-01	.5051E-04	.19 d1E = 01
.3100E 01	.1826E 00	41U0E 00	.1246E-03	•2267E-04	·1357E=01	.7009E-04	.2473E-01
.3200E 01		-,1200E 00	.1173E-03	.1654E-04	1777/c+01	510 8E-04	.3142F-01
.3300E 01	.1880E 00	.7000E 00	.11u4E=03	.2075E-04	1/5/2-01	-,1408E-04	.2650E=u1
.34U0E 01	.2100E 00	1500E u0	.1030E-03	.2180E-04	.1922E=01	.7727E-04	.31 34E-01
.3500E 01	.2020F no	.3600E 00	.9702E=U4	•1972E-04	•2148E-01	1869E-04	.3418E-01
.36UOE 01	.2380E UO	2800E 00	.9175E-04	.2184E-04	.2353E-01	.3514E-54	.3341E-01
.3700E 01	.2100£ 60	4400E 00	.8619E-04	.1810E-04		-,2569E-04	.3676E-d1
.3800E 01	.1660E UC	.19u0E u0	.0095E-04	1744: 04		3792E-04	.3425E-01
.3900E 01	.1050E 00	.6500E 00	.7549E-04	.1344E=04	•2917E-01	.1538E-54	.3063E-91
.4000E 01	.2700∈ 00	.3500E 00	.7132E-04	•1406E-04	.3055E-01	.6459E-04	.3217E-01
.4100E 01	.3J50E 06	.2900E 00	.6091E-04	1926E-04	.32235-01	.2496E-04	.3839E-U1
.42U0E 01	.334UE 00	.150UE 00	.6276E-04	.2041E-04	.3421E-01	.1940E-04	.4081E-01
.4300E 01	.3490E 00 .	2500E CO	.5804E-U4	.2096E-04	.3628E-01	.9414F-05	.4268E-U1
.4400E 01		3500E au	.5516E=04	.2054E-04	.3836E-01	1471E-04	4355E=01
4500E 01		3500E 00	.5169E-04	.1787E-04	•40276=01	1931F-04	.4213E=J1
.4600 € 01		9001E-01	.4643E-04	1494E-04	• 1191E-01	1809E-04	.4027E-01
.4700E 01		.9000E-01	.4537E-04	.1230E-04	.4327E-01	4359E-ns	.3853E-u1
.4800E 01		.5004E-02	.4249E=04	•1111E-04	.4444E-01 .	-,4083E-05	.381CE-01
.4900E 01		.500GE-J2	.3978E=04	.1003E-04	.4549E=01 4	2126E-06	.3771E-01
.5000E 01		.2547E-36	37245-64	.9368E-05	.4646E=01 .	1989F-n6	.3769E-J1
.5100E 01	.23506 00	.6030F 00		.0751E-05	.4737E-01 .	-,9483E-11	.3767E-01
.>200E 01	.2350E DU	.2>u0t-u1	.3435E-U4 .3261E-04	·8190E-05	•4~21E-01	.0000E 00	.3757E=31
.5300E 01	.2375E 00	.2200E-01		.7663E-05	.4901E-01	8152E-06	.3767E=U1
.5400E 01	.2400E UD	.1000E JO	.3051E=04	.7246E-05	.4975E-01	.7627E=06	.3775E-01
.550UE 01		•1350E no	.2654E=04	.6849E-05	·5046E-01	.5279E-05	.3783E-01
.>600E 01	A 7 7 / W	.1300E 00		.6899E-05	.5114E-01	.4937E-05	.3834E-01
5700E 01			•2496E=04	.0913E-05	.5183E-01		.3082F-J1
.5800E 01		4		•0766E-05	.5252E-01		.3913E-01
.5900E 01	1 . 7 .			.6608E-05	•5319E-01	03000	.3942E=01
		1,0005-01	.2038E-04	.6258E~05	,5383E-01		.3951E-U1

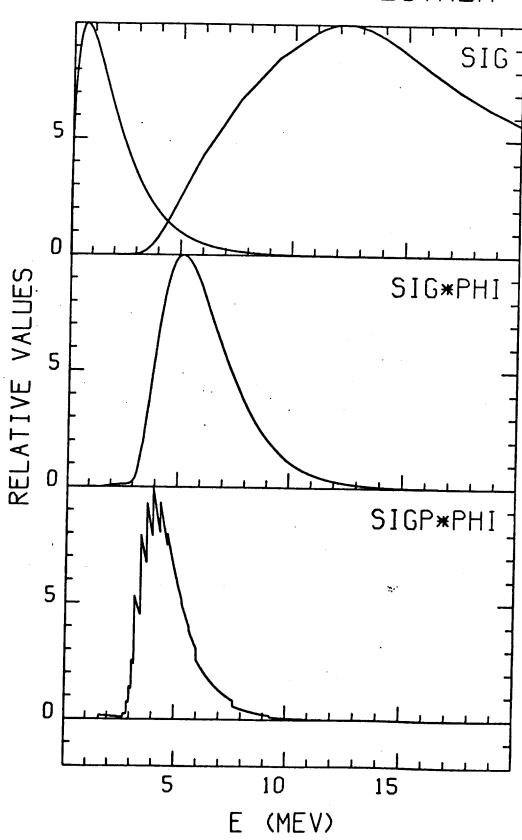
Ł	SIG	SIGP	рні	SIG*PHI	F	SIGPOPHI	G
−,			10.155=34	.5924E-05	.5444E=01	.1143E-06	.3959E-J1
.6000E 01	.3110E UU		.1935E=34	.5546E-05	.5501E-01	.1068E-J6	.3967E-U1
.61UOE C1	.3116E 00	.600ÜE-02	.176JE-04	.5192E-05	55556-01	.9977E-07	.3961E-J1
.6200E 01	.3122E 00	.6000E-02	.1653E=04	.4859E-05	5605E-01	9320E-07	.3962E=31
.03UOE 01	.3125E UU		.1553E=J4	4547E-05	.5652E=01	8705E-07	.3963E-U1
.6400E 01	.3134E UU		.1451E=04	.4255E=05	.56964-01	.5420E-07	.3963E-U1
.6500E 01	,314UE UÛ	4000E-02	.135>E=04		.57375-01	.5061E-07	.3964E-01
.6600E 01	.3144E U	4000E-02	.1205E=04	.3978E-05	.5776E-01	47255-07	.3964E-G1
.6700E 01	.3148E JU	4000E-02	.1101E-04	.3476E-05	.5312E-N1	4411E-07	.3965E-01
.6800E 01	.3152E UL	,4000E-02	.1103E=04	.3249E-05	.5345E-01	4118E-07	.3965E-U1
69UOE 01	,3156E 00	.4000E-U2	.1U29E-04		.5377E-01	7687E-07	.3966E-01
,7000E 01	,3160E U	.800UE-02	96095-05	.3036E-05	.5906F-01	7174E-07	.3956E-J1
7100E 01	,3169E U	,5000E-02	.6905E=05	.2841E-05	.5933E=01	6695E-07	.3967E=01
,7200E 01	.3176E 61		.0369E=05	.2658E=05	.5959E=01	6247E-07	.3963E-01
.7300E 01	.31846 C	ŭ , 8πυθ £- ÿ2	.7809E-05	.2486E-05	.5783E-01	5824E-07	.3966E=J1
.74U0E 01	.3192E U	ს •8ეე0E⇒02	,7286E-05	.2326E-05	.6006E=01	.5438E-07	3969E-01
,7500E 01	3200E U	U .8000E-02	.6797E-05	.21756-05		5072E-07	3969E-01
,7600E 01	3208E 0	0 . 5000 E- 02	.6341E-05	.2034E-05	.5027E=01	4731E-07	397UE-31
.7700E 01	.3216E U	ij .8ijijŌĒ−ijZ	.5914E-05	.1902E-05	.6046E=01	.4413E-07	3970E-01
7800E 01	3224E U	ს "მს00E=u2	.5516E=05	.1778E-05	.6065E-01	4115E=07	3971E-01
7900E 01	3232E U		.5144E-U5	.1663E-05	.5082E=01	5757E-07	3971E-01
8000E 01	.3240± C		,4797E-05	.1554E-05	.6J98E=01	5368E-07	39726-01
,0100E 01	3252L 0		.4473E-U5	.1455E-05	.6113E=01	.5005E-07	3972E-U1
.6200E 01	3204E C		,4171E=05	.1361E-05	.61275-01	4666E-07	39735-01
0300E 01	3276E U		.388₺€⇒05	.1274E-05	.61405-01	.4350E-07	.3973E-01
.8400E 01	3288E 0		.3625E - 05	.1192E-05	.5153E-01	6758E-07	.3974E-01
a500E 01	.3300€ 0		.3379E-05	.1115E-05	.6164E=01		3974E-01
8600E 01	3320E 0		.3150E-05	.1046E-05	,5175E-01	.6300E-07	.3975E-01
.8700E 01		U .2000E-01	.2936E=05	.9806E-06	.5185E-01	5872E=07	3975E=01
.0800E 01		U .2000E-01	,2736E-05	.9194E-06	.61955-01	,5472E-07	3976E=01
6900E 01		0 .2000E-01	,255UE - 05	.6619E-06	.6203E=01	.5100E-07	3977E-01
.9000E 01		0 ,2300E-01	.2376E=05	.8079E-06	.6212E=01	.6653E=07	3977E-U1
4100E 01		0 2800E-01	.2214E-05	.759UE-U6	.6220E-01	.6200E-J7	3973E=01
9200E 01	34568 0		,2063E-05	.7130E-06	.6227E-01	,5777E-07	.3970E=01
,9300E 01		10 .2860E-01	.1922E-05	.6697E-06	.6234E-01	,5382E-07	3979E=91
.9400E 01		0 .2800E-01	.1791E-05	.62895-06	.6240E=01	.5014E-07	3979E-J1
.9500E 01		3200E-01	.1568E=05	.5906E-05	.6246E-01	,5339E-07	.3979E-01
.9600E 01		0 .32JOE-01	.1524E-65	.5551E-C6	.0252E-01	.4973E-07	.3930E=01
.9700E 01	36045		.1445E-05	.5217E-06	.6258E-01	.4633E-07	
		0 3200E-01	.1346E-05	.4903E-06	.6263E+U1	,4315E-07	.3981E=J1
.9800E 01		0 3200E-01	.1256E-05	.4607E-06	.6267E=01	.4019E-07	3981E-01
.9900E 01		00 .2400E-01	.117JE-05	.4328E-06	.62725-01	.280 8E-07	.3982E=01
.1000E 02	.3724E		.1087E-05	.4057E-06	.6276E=01	,2614E-N7	.3932E=91
.1010E 02	17/446			.3802E-06	.6280F-01	.2435E-07	.39 d2E= J1
.10206 02	3748E	- 01 - 4		.3563E-U6	,6284E - 01	,2267E-07	.3982E=01
.1030E 02	.3772E			.3339E-06	.6287E - 01	.2111E-07	.3963E=01
.1040E 02	.3796E			.3129E-06	.0290E-01	49185-08	.3933E=01
.1050E 02			.7627E-06	.2918E-00	.6293E=01	.4576E=08	.39d3E=01
.1060E 02				.2721E-06	.5296E-01	.4260E-18	.3933E-01
.1070E 02			.6611E-06	.2537E-06	.6299E-01	.3966E=08	.3933E-31
.1080E 02	.38385					.3693E-08	.3933E-01
.1090€ 02	.3344E	00 100005305					

ε, ,	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
44005 00	3250C 00	-,1998E-02	.5729E-06	.2206E-06	.6304E-01	-,1145E-08	.3983E-01
.1100E 02	3330E 00	2CJ0E-02	.5333E-06	.2052E-06	.6306E-01	-,1067E-J8	.3983E-J1
.1120E 02	3346E 00	-,2000E-02	4905E-06	.1909E-06		-,9929E-09	.3933E-01
.1120E 02	3844= 00	2000=-02	.4621E-36	.1776E-06	.0309E-01	9242E=09	.3983E-J1
.1140E 02	3642E 00	-,2000E-02	4301E-06	1652E-06	.6311E-01	8602E-09	.3963E-01
.1150E 02	3340E 00	3599E-U1	.4093E-06	.1537E-06	.63135-01	1441E-07	.3983E-01
.1150E 02	34045 00	-,3600E-01	3726E-06	.1417E-06		-,1341E-07	.3983E-01
1170E 02	3768F UU	3500E-01	.3460E=C6	.1307E-06	.6316E-01	1248E-07	.3983E-01
1180E U2	.3732+ 60	-,3600E-01	.3227E-06	.1204E-06	•6317E-01	1162E-07	.3983E=01
.1190E 02	.3696E 00	3600E-01	.30u3E-06	.1110E-06	.6318E=01	1081E-07	.3982E=01
.1200E 32		7599E-01	.2795E-06	.1023E-06		-,2123E-07	.3982E-U1
1210E 02		7600E-J1	.2600E-96	.9320E-07		-,1976E-07	.3982E-01
1220E 02	.3508₺ 00	7600E-01	.2420E-06	.6488E-07	.6321E-01	-,1839E-07	.3982E-01
1230E 02	.3432E 00	-,76uUE-U1	,2251E-U6	.7727E-07	.6322F=01	-,1711E-07	.39 d2E=01
.1240E 02	.3356E 00	-,7600E-u1	.269⊅E=L6	.7030E-07		1592E-07	.3982E=01
.1230E U2		-,4001E-01	.1949E-U6	.6393E-07	.6323F=01	779 9E-08	.39 31E = 01
.1260E 02	3240E 00	-,4060E-01	.1813E-U6	.5875E-07	.6324E-01	-,7254E=08	.3981E=01
.1270E 02	.3200E 00	-,4CUGE-01	.1687E-U6	.5399E-07	.5324c=01	-,6749E-08	.3981E=U1
.1280E 02		-,4000E-01	,1570E-06	.4960E-07	.6325E=01	-,6278E-08	.3981E=U1
.1290E 02		46608-01	.1450E-06	.4556E-07	.0325E-01	5641E-08	.3961E=01
.1300E 02	.30806 30	-,5599E-01	.1353E-06	.4184E-07	,63262-01	7606E-08	.3981E=01
.1310E U2	.3024E UJ	5600E-01	.1204E-06	.3821E-07	.6326E-U1	7076E-08	.3981E=01
.1320E 02	.2968£ Dü	-,5660E-01	.1175E-06	.3489E-07		6582E-08	.3961£-01 .39d1E-U1
.1330E 02	,2912E 00	560UE-01	.1093E-00	.3184E-07		-,6123E-08	.3981E-01
.1340E 02	.2356E 00	-,5600E-01	.1017E-06	.2905E-07	.6327E=01	-,5695E-08	.3981E-01
.1350E 02	,2600E 00	540bE-01	9457E-07	.2649E=07		5108E-08	.3981E-01
.1360E 02	.27465 00	-,5400E-01	.8790E-07	.2416E-07	47305 01	4751E-08 4419E-08	.3961E-01
.1370E 02	.2692È UÛ	-,5400E-01	.6183E-07	.2203E-07	43395-01	4110E-C8	.3961E=01
.1380E 02	.2638E 00	-,5400E-01	.7611E-07	.2008E-07	10323E-01	-,3822E-08	.3961E-61
.1390E 02	.2584E JU	5400E-01	.7076E=67	.1829E-07	. 6320E=01	-,3666E-08	.3981=-01
.14U0E 02	,2530E 0C	-,5600E-01	.6583E-07	.1515E-07	6329E-01	3428E-08	.3961E-31
.1410E 02	,2474E 00	5500E-01	.6122E-07	.1377E-07	.A3206=01	3188E-08	.3980E-11
.1420E 02	.24185 00	-,5600£-01	.5693E-07	,1251E-07	. A320E=01	2965E-C6	.3980E-u1
.1430E 02	,2362E 00	5000E-01	.5294E+07 .4923E+07	.1135E-07	.6329E=01	-,2757E-08	.3960E-01
,1440E 02	.23066 00	-,5600E-01	4578E-07	.1030E-07	. 43295-01	1374E-08	,3930E=01
.1450E 02	.22506 00	3001E-01	4257E-07	.9451E-08	.63296-01	1277E-08	3980E-01
.1460E 02		-,3u00E-01	3929E-07	.669E-08	.63295=01	1186E-08	.3980E-01
.1470E 02	.2190E 00	3000E-01	.3681E-07	.7951E-08		-,1104E-08	3980E-01
.1480E 02	,2160E 00	3000E-01	.3422E-07	.7290E-08	.63305-01	1027E-08	3960E-01
.1490E 02	.2130= 00	-,3000E-01	31625-07	.6683E-08		-,1464E-08	.3980E-U1
.15U0E 02	.2100E 00	-,4599E-01	.2959E=07	.6077E=08	.6330F=01	1361E-08	.3980E-01
.1510E 02	,20545 00	-,4600E-31	2751E=07	.5524E-03		-,1265E-08	.396CE-U1
.1520£ 02		4600E-01	2550E-07	5018E-08	.6330E-01	1176E-08	.3950E-U1
.1530E 02	1962E 00	-,4600E-01	.237 AE-U7	.4556E-08	.6330E-01	-,1094E-08	.398LE-01
.1540E 02	13705 00	4600E-01	.2211E-07	.4134E-08		-,1017E-58	.39 b0E-01
1550E 02	122700 00	450UE-U1	.2055E-07	.3749E-08	.6330E-01	-,9453E-09	.3950E-01
.1560E 02	17786 60	4600E-31	.1911E-07	.3397E-08	.6330E-01	8768E-09	.3980E-01
1500E 02	17326 60	-,4n00E-01	1776E-07	.3076E-03	.6330E-01	-,8170E-09	.3980E-01
.1590E 02	1686- 00	460CE-U1	.1651E-07	.2784E-08	.6330£-01	7595E-09	.39EUE-01
172205 05	110005 40	7.00-0	• - · • - · ·				

ŧ	SIG	SIGP	PH1	SIG*PHI	F	SIGPOPHI	G
.1600E 02	. 16401- 00	3701E-01	.1535E+07	.2517E-08	.53305-01	5680E-09	.39dUE-01
.1610E 02		3730E-01	.1427E=37	.2287E-08	.6330E-01	-,5279E-09	.39 mg E = 01
.1620E 02	.1566÷ UU	-,37uJE-U1	1326E-U7	.2077E-03		4907E-19	.3930E+01
.1630E 02	.1529F US	37uú£-ú1	.1235E-07	.1885E-08	.6330E-01	-,4561E-09	.3980E-J1
1640E 02	.14926 00	3760E+61	.1146E-07	.1710E-08		4240E-J9	.3950E-U1
16>0E 02	.1455E 06	3700E-01	.1u65E=97	.1550E-0B	.5330E-01	-,3941E-09	.3960E-01
.1660E 02		-,37u0E-01	.990JE=05	.1404E-08	.6330E-01	3663E-09	,39o0E=J1
.1670E 02	.1381E 00	37J0E-61	,9202E-04	.12715-08	.6330E-01	-,3405E-09	.398JE-01
.1680E 02	1344E UÚ	37JUE-u1	.85 >3 E=38	.1149E-05		3165E-69	.3930E-U1
.1640E U2		3700E-31	.7949E-06	.1039E-08		2941E-19	.3980E-01
.1700E 02		2601E-U1	.73 onE-09	.93835-09		-,1922E-09	.39 80E - 01
.1710E 02	.1244E UU	-,2500E-01	.6∂67 E- ⊍∂	.6542E-09		-,1785E-09	.398CE-31
.1720E 02		2600E-01	. 03 02E=08	.7773E-09		1659E-09	.3980E-01
.1730E 02		26uCE-01	. >931E =08	.7070E-09		1542E-09	.3980E-01
.1740E 02		2600E-01	.5512E-08	.6427E-09	.6330E-01	1433E-09	.3980E-01
.1750E 02		-,2600E-01	.5123E-0s	.5840E-09	.53 3 0E-01	-,1332E-09	.3930E-01
.1/60E 02		2იმმნ⇒მ1	.4761E-09	.5303E-09	.6330F-C1	12385-09	.3950E-01
,17/0E 02		-,26002-31	.4424E-J8	.4813E-09		1150E-09	.3980E-01
.1780E 02		200JE-U1	.4111E-03	.4366E-09		1069E-09	.3950E-01
.1790E 02		-,2600E-01	.3821E-03	.3958E-09		-,9934E-10	.3980E-01
.1000E 02		-,1401E-01	.35>0E-∪8	35865-09		-,4974E-10	.3980E=01
.1810E 02		1400E-01	.3299E-08	.3286E-09		4619E-10	,3980E-U1
.1820E 02		1400E-01	.3065E-08	.3011E-09		-,4292E-10	.3980E-01
.1830E 02		1406E-01	.2849E-03	.2758E-09	.6330E=01	-,3988E-10	.3980E+01
.1840E 02		-,1400E-01	2647E-08	.2525E-09		-,3706E-10	.3980E-01
.1850E 02		1400E-01	.2460E=08	.2312E-09		-,3444E-10 -,3200E-10	.3980E-01
.1860E 02		1400E-01	.2286E-08	.2116E-09		2973E-10	.3960E=01
.1870E 02		-,1400E-01	.2124E=08	.1937E-09		2762E-10	.3980E-01
.1880E 02		140GE-01	.1973E=08	.1621E-09		-,2567E-10	.3980E-01
.1890E 02		-,1400E-01	.1033E=08 .17∪3E=08	.1482E-09		-,1704E-10	.3930E-01
.1900E 02		1000E-01	.1503E=08	.1361E-09		1583E-10	.3950E=01
.1910E 02		1000E-01	.1471E=U8	.1250E-09	63305-01	1471E-10	.3900E=01
.1920E 02	• • • • • • • • • • • • • • • • • • • •	1000E-01 1000E-01	.1366E=nd	.1148E=09		1366E-10	.3960£=01
.1930E 02		-,1000E-01	.1269E=48	.1054E-09		-,1269E-10	3960E-01
1950E 02		1000E-01	.1179E=08	.9670E-10		1179E-10	.3960E-01
.1960E 02		1000E-01	.1096E-08	.8875E=10		1096E-10	.398JE+01
.1970E 02		1000E-01	.1018E=08	.8143E-10		1018E-10	.3986E-01
.1980E 02		1000E-01	.9457E=09	.7471E-10		9457E-11	.3980E-u1
.1990E 02		-,1000E-01	.0756E=09	.6853E-10		8786E-11	.390UE-01
11//02 02	11000000	. 4 7000 = 01	, , , , , , ,				

SPECTRUM AVERAGE CROSS SECTION = .6330E=01





TI-46(N.P)SC-46 U-230 FISSION SPECTHUM

E	31G	SIGP	PHI	SIGOPHI	F	SIGPOPHI	G
.1700E 01	.1250=-04	.1766E-03	.2679E-03	.3349E-08	.1202E-06	.4784E-07	.3452€ - 05
.1800E 01	30365-u4	.1766E-03	.2554E-03	.7755E-08	.6912E=06	.4562E-07	.0124E-U5
1900E 01	43216-04	1706E-03	.2432E-03	.1173E-07	.1661E-05	4343E-07	.1257E-U4
.2000E 01	.6607E-04	.1/36E=03	.2312E=03	.1528E-07	.3016E=05	.4129E-07	.1601E=04
.2100E 01	8393E-04	17-6E-US	.2196E-u3	.1843E-07	.4706E-U5	.3921E-07	.2063E-04
,2200E 01	.1018E-03	.1796E-03	.2003E=63	.2120E-07	.6692E=05	.3719E-07	.2465E-C4
.2300E 01	.1196E-03	,1736E-03	.1973E-03	.2361E-07	.8937E=05	,3524E-07	.2827F - J4
.2400E 01	.1375E=C3	.1736 E- û3	.1h60E=U3	.2568E-07	11405-04	,3336E-07	.3170E-04
.2500E 01	15546-03	.17n6E-03	.1767E-u3	.2745E-07	·1406=-04	.3155E-07	.3494E-44
.2600E 01	.1732e-U3	.1786E-03	.167UE-U3	.2892E-07	·1689E-04	.2981E-07	.3801E-04
.2700E U1	.1911c-u3	.1736E-03	.1577E-03	.3013E-07	.1984E-04	.2815E-07	.4091E-04
.2800E 01	.22375-05	4733E-03	.1400E-03	.3328E-07	.2296E=04	.7043E=07	.4591E=04
.2900E 01	.27102-03	1657E-02	.14u3E-u3	.3803E-07	.26536-04	.2325E-06	.5292E=04
.3000E 01	43676-03	.3256E-02	.1323E=03	.5775E-07	.3135E=04	,4306E-06	.7569E=04
.3100E 01	.76222-03	.5277E=02	.1246E-03	.9496E=07	.3905E=04 .5206E=04	.7821E-06	.1179E=J3 .1946E=uS
.3200E 01	1390K+02	.1335E-01	.1173E=03 .11u4E=03	.1630E-06 .3063E-06	.7575E=04	.1529E-05	.3522E-03
.3300E 01	.2775E-02 .4160E-02	.1355E-01	.1104E=03	.4319E=06	11295-03	.1438E=05	.5004E-03
.3500E 01	5360E-02	.2424E=01	.9762E=04	.5813£=06	.1625E=03	2367E-05	.6819E=03
.3600E 01	.8385E=02	.2424E-31	.917>E=04	.7693E-06	.2304E=03	.2224E-05	.9114E-03
.3/00E 01	10012-01	.24248-01	£6196-04	.9317E-06	.31578-03	2090E-05	.1127E-02
.3800E 01	.1397E-01	.3548±=01	\$045E=04	.1131E-05	.4186E=03	2710E-05	.1392E-U2
.3900E 01	17326-01	.3348E-01	75 99E=04	.1316E-05	.5413E-03	.2545E-05	.1654E-02
.4000E 01	.2005E-01	4239E-01	7132E-04	.1487E-05	.4812F-03	.3023E-05	.1914E-02
.4100E 01	.2509E-01	.4239E-01	.6591E=04	.1679E-05	.6399F-03	.2836E-05	.2207E-02
.4200E G1	2932E-01	42396-01	.6276E-u4	.1840E-05	.1016E=02	.2660E-05	.2481E-02
.43JOE 01	3356=01	.4239E-01	.5804E-04	.1975E-05	.1207E-02	2494E-05	,2739E-J2
.4400E 01	33356-01	.4927E-01	,5516E=G4	.2116E-05	.1412E-02	,2718E-05	.30125-02
.4500E 01	.4326E-01	.4927E=01	,5169E=94	•2237E-05	.1630E-U2	.2547E=05	,3275E=ú2
.4600E 01	.4021E-U1	.4927E-01	,4543E-J4	.2335E-05	.1358E-02	,2386E-15	.3522E=J2
.4/00E 01	,3326E=01	.5246E-01	.4537E-04	.2416E-05	.2u96E=02	.2380E-n5	.3753E-52
,4800E 01	,5351E - 01	.5246E-01	.4249E-U4	.2486E-05	.2341E-02	.2229E-05	.3989E-02
.4900E 01	.6375d=01	.5246E-01	.397⊍∈−04	.2536E-05	.2593E-02	.2087E-05	.4204E-02
.5000E 01	.6Y00E-U1	.5240E-01	.3724E=04	.2569E-05	.2446E-02	,1954E-05	.4406E-02
.5100E 01	,7425E-U1	.5246E-C1	,34c5€-04	.2588E-05	.3106E-02	.1829E-05	.4595E-02
.5200€ 01	.7950E-U1	.5248E-U1	.3261E=U4	.2592E-05	.33658-02	.1711E-05	.4772E-02
.5300E 01	.8474E-01	.5246E-01	.30>1E=04	.2585E-05	.3624E=02	.1601E=05	.4938E-02
.5400E 01	.5991E-01	,5123E-C1	.2854E=04	.2566E-05	.3082E-02	.1462E=05	.5090E=02
550GE 01	.9503E=01	.5123E-01	.2669E=u4	.2536E=05	.4137E=02	1367E=05	.5231E-02 .5364E-02
.5600E 01	,1002E 00	,5123E-01	2496E=04	.2499E=05	.4536E=02	.1273E-05	.5486E=J2
.5730E 01	.1052E UU	.4929E-01	.2333E=04	.2402E=05	.43796=02	1075E=05	.5597E-02
,5900E 01	.1101ê 00 .1151ê 00	4929E=01	.2038E=04	.2346E=05	.51175=02	.1005E-05	.5701E-U2
.6000E 01	.1200E 00	.4153E=01	.1905E-04	.2286E-05	.5348E=02	.7912E-06	.5790E=02
.6100E 01	.1242E 00	,4153E-01	.1760E=04	.2210E-05	.5573E=02	.7392E=16	.5874E-02
.6200E 01	.12638 00	.4153E=01	.1563E=04	.2134E-05	.5790E-02	6906E-06	5945E-J2
.6300E 01	.1325c 00	.4155E=J1	1503E-04	.2053E-05	.5000E-02	.6451E-06	.0012E-12
.6400E 01	.1366± UU	.4153t-(1	.1451E-04	.1982E-05	.6202E=02	.60265-06	.6075E-02
6500E 01	.1408É UC	4153E-01	1355E-04	.1907E-05	,53965-02	.5627E-06	.6133E-02
.6600E 01	.1449E 0U	.4153E-01	.1205E-U4	.1834E-05	.6583E-02	,5255E-06	.6187E-02

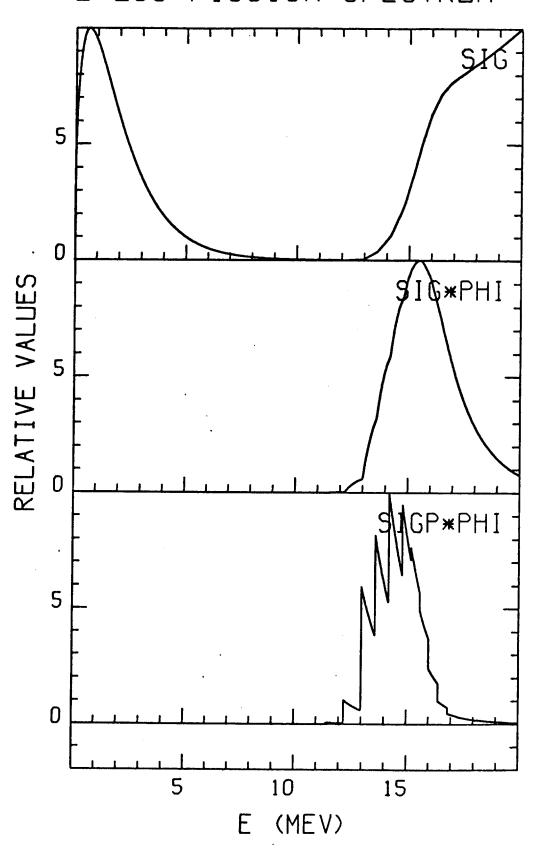
E	SIG	SIGP	PH1	SIG*PHI	F	SIGP*PHI	G
.6700E 01	.1491E UU	.4153E-01	.1161E-04	.1761E-05	.6763E-02	.4906E-06	40715-01
.6800E 01	.1532E 00	4153E-01	.1103E-04	.1690E-05	. 5935E=02	.4580E=36	,6238E-02
.6900E 01	.1574E UU	.4153E-01	.1029E=04	.1620E-05	.7101E-02	.4276E+06	.6285E=02
.7000E 01	.1615E UC	.4153E-u1	.9009E-05	•1552E-05	.7259E-02	.3991E-06	.6330E-J2
.7100E 01	.1657€ 60	4153E-01	.0960E-U5	.1486E-05	.7411E-02	.3724E=06	.63715-02
.7200E 01	1698E 06	.4153E-01	.0309E-15	.1421E-05	.7556E=02	.3476E-06	
.73U0E 01	.1740E UU	.4153E-L1	.7609E=05	1359E-05	7695E=02	.3243E=06	.6446E+02
.7400E 31	.1701E UJ	.4153E-91	.72 00E - 05	.1298E-05	78288-02	.3026E=96	.6479E-U2
.7500E 01	.1823= CU	.4153E-J1	.6797E-05	.1239E-05	.7955E-02	.2823E-06	.654CE=02
.7000E 01	.1564± ∪0	.4153E-01	.0341E-05	.1182E-05	.50765-02	.2633E-96	.05c7E=J2
.7700E 01	.1902E CU	.2950E-01	5914E-05	.1125E-05	.8191E-02	1745E-06	.659JE=U2
.7600E 01	1932E UU	.2950E-01	.5510E-05	.1065E-05	. #301E=02	1627E-06	.6607E=02
.7900E 01	.1961E 0C	.295UE-01	.5144E-U5	.1009E-05	.8405E-02	.1517E-06	.6622E-u2
.6400E 01	1991E UU	.2930E-01	.4797E-05	9549E-06	.8503E-02	.1415E=06	.0637E=U2
.0100E 01	.2020± 00	,2950E-01	4473E-05	9036E-06	.3596E=02	.1319E-06	.6651E=02
.6200E 01	. 2350£ 60	.2y50E+01	4171E-05	.5548E-06	. a583E=02	.1230E-06	6603E±02
.6300E U1	.2079E 66	,2950E-u1	. 3 863 E +05	.8084E-06	.9767E-02	.1147E-96	.6675E-02
.0400E 01	.21U9E UU	.2950E-01	.3625E-05	.7643E-06	. 8845E-32	.1069E-96	6685E-02
.0500E 01	.2138 <u>2</u> 00	.2950E-01	.3379E=ŭ5.	.7225E-06	. h919=-02	.9968E-07	.6697E-02
.0600E 01	.2167E UG	.24506-61	.3150E-05	.6827E-06	.4990E-02	.9291E-07	.6706E=02
.87UJE 01	.2197E UU	,29>UE-(1	.2936E-05	.0450E-06	.9J56E-02	,8660E-37	.6715E-02
.6800E 01	.2226E UU	.2950E-J1	.2736E+65	.6092E-06	·9119 == 02	.8071E-07	.0724E-U2
.8900E 01	,2256E UU	.2950E-01	.2550E-U5	.5753E-08	.91785-U2	.7522E-07	.6731E-02
.9000E 01	.2205t UU	.2950E-01	.2376E-ú5	.5431E-06	92348-02	.7009E-07	.6739E-02
,9100E 01	.2315E 00	.2950E-01	.2214E-05	•5126E-06	.9287E-02	.6531E-07	.6746E-02
.9200E 01	.2344E 00	.2950E-01	.2063E-05	.4837E-06	.9336E-02	.6086E=07	.6752E=02
.9300E 01	.2374E 00	.2950E-v1	.19226-05	.4563E-06	.9383E=02	.5670E-07	.6753E-u2
.9400E 01	.23 96E UU	.1377E-01	.17 y1E = 05	.4292E-06	· 9428E - 02	.339 AE =07	.6762E-02
.9500E 01	.2415E GL	,1697E-U1	.1665E-35	.4030E-06	.94692-02	,3165E-07	.6765E-02
.9600E 01	.2434E UU	.1897E-01	.1554E-C5	.3783E-06	.9508E-02	.2943E-07	.6763E=02
.9/00E 01	2453E 00	1597E-U1	.1440E-05	.3552E-06	,9545E-02	.2746E-07	.6771E-02
.9800E 01	2472± 00	.1d97E-01	.1343E-05	.3334E-06	,9579E-02	.2558E-07	.6774E+02
9900E 01	.2491E 0U	.1697E-01	.1256E-05	.3129E-06	.9612E-02	.2363E-07	.6776E-02
.1000E 02	.2510E 80	1597E-01	.11/JE-05	.2936E-06	.4542E=02	.2219E-07	.0773E-02
	2529E 00	.1897E-01	.1009E-05	.2755E-06	.2670E-02	.2067E=07	.6731E - 02
.1020E 02	2546E 00	.1897E-01	.1014E-05	.2585E-06	.9697E-02	.1925E - 07	.07o3E+ú2
.1030E 02	.2567E 0U .2586E 00	.1d97E-01	.9447E-36	2425E-06	97226-02	.1792E-07	.67d4E - u2
.1050E 02	•	,1897E+61	.8797E-06	2275E-06	9745E-02	•1669E-07	,67ĕ5Ë - 02
.1060E 02	.2605E 0u .2624E 00	.1697E-01 .1897E-01	.81 /1E=06	.2134E-06	9767E-02	1554E-07	.6788E-62
.10/0E 02	.2543= 0u	.1897E-01	.7627E-06	.2001E-06	.9788E-02	•1447E-07	.6789E-02
.1080E 02	.2662E UU	.1697E=01	.71J1E-06	.1877E-06	.9808E-02	.1347E-07	.6791E-02
.1090E 02	.2581E UU	.1897E-01	.6611E=06	1760E-06	.∋d26E=02	.1254E-07	.6792E-02
.1100E 02	.27006 00	.1315E-(1	.6154E-06	.1650E=06	.9343E=02	.1168E-07	.6793E-02
.1110E 02	.2713E 00	13156-01	.5333E-U6	.1547E-06	.98596-02	.7537E-08	.6794E-02
.1120E 02	.2726t UC	.1315E-01	.4905E=56	.14472-06 .1353E-06	•9574E=02	.7015E-08	.6795E-02
.1130E 02	.2739E UU	.1315E-01	.4621E=06	.1266E-06	.9888E-02	.6530E=08	. 67 96E = 12
.1140E 02	.2751E UC	.1033E-01	.4301E+06	.1183E-06	.9901E-02	.6078E-08	.6796E-U2
.11>0E 02	.2761= 00	1033E-01	.40036-00	.1105E-06	.9913E=02	4443E-08	.0797E-J2
.1160E 02	2771E 00	.1633E-01	.3726E-U6	.1033E-06	.7927E=02	4135E-08	.6797E=J2
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t `	SIG	SIGP	Pnl	SIG*PHI	F	SIGPOPHI	G
.1170E 02	.2700E 00	.6517E-62	.3463E-06	.9641E-07	. 99456-02	.2260E-08	.67 98E-02
1180E 02	.2737E 00	.6517E-u2	.3227E-06	.3994E-07	.99546-02	.2103E-08	.6798E-J2
.1190E 02	.2793E UU	.6517E-(.2	3003E-06	.6389E-07	,99632-02	.1957E-JS	.6798E-J2
.1200E 02		2675E-03	27956-06	.7825E-07	.9971E-02	-,7476E-10	.6799E-02
.1210E 02		2699E-03	.26 L C E = 06	.7281E-07		-,7018E-10	.6799E-J2
,1220E 02		-,2699E-J3	.2420E-06	.6774E-07	.9986E-02	-,6530E-10	.6799E=02
.1230E 02	2799E 00	-,2694E-63	.2251E-06	.6302E-07	.9992E-02	-,6076E-10	,6799E - 02
.1240E 02		-,2699E-03	.2095E=06	.5863E-07	.4468E-05	-,5653E-10	.6799=-02
.1250E 02	.2799E UU	-,2679E-03	.1949E-06	.5455£-07		-,5260E-10	.6799E-J2
.1200E U2	.2798E 0u	-,2699E-03	.1813E-06	.5075E-07		-,4894E-10	.6799E-02
.1270E 02	·	8108E-(2	,1657E=06	.4716E-07		1368E-08	.6799E=112
.1280E 02		6108c-02	.157úE=C6	.4375E-07		1273E-08	.6798E-02
.1290E 02		8108E-02	.1460E-06	4050E-07		1184E-08	.6798E-02
.1300E 02		8108E-02	,1358E=06	.3764E-07		1101E-08	.6798E-02
.1310E 02		8103E-02	.1264E-06	.3491E-07		1025E-08	.6798E-02
.1320E U2		8103E-02	.11/>E=10	.3238E-07		-,9530E-09	.6798E+J2
.1330E 02		8108E-02	.1093E=06	.3003E-07		-,8865E-09	.6798E=02
.1340E 02		1412E-01	.1017E=06	.2781E-07		-,1436E-08	.6798E=02
.1350E 02		1412E-J1	.9457E=J7	2574E-07		-,1336E-08 -,1243E-08	.6798E=02
.1360E 02		-,1412t-J1	.8790E=37	.2381E-07 .2203E-07		1156E-U8	.6797E=02
.1370E 02	.2392E 00	-,1412E-01 -,1412E-01	.0183E-07 .7611E-07	.2038E-07	-	1075E-08	.6797E=02
.1380E 02		1412E-01	.7073E-07	.1886E-07		-,9997E-09	.6797E=02
.1400E 02		1830E-01	.6583E-07	.1744E-07		1205E-08	.6797E-J2
.1410E 02	26326 00	-,1331£-01	.6122E=07	1611E-07		-,1121E-08	67 97E-J2
.1420E 02		=,1831E=J1	.5693E=07	1485E-07		1042E-08	.6797E-02
.143UE 02		1531E-01	.5294E-07	.1374E-07		-,9692E-09	.6797E-02
1440E 02		-,1331E-01	4923E-07	.1269E-07		-,9013E-J9	.6797E-U2
14>UE 02		-,1d31E-01	4570E-07	.1171E-07		-,8381E-09	.6797E-J2
.1460E 02	•	1331E-01	.4237E-07	.1081E-07		-,7793E-39	.6796E-02
.1470E 02		2065E-01	.395yE-07	.9980E-08	.1006E-01	8173E-09	.6796E-J2
.1480E 02		-,20656-31	.3061E-07	.9204E-08	.10062-01	7599E-09	.6770E-02
.1490E 02	.2480E 60	-,2065E-01	.3422E-07	.8487E-0 d		7066E-09	,6796E~J2
.1500E 02	,2459E UU	-,2005E-01	.3182E-07	.7825E-0a	•1007E=01	-,6570E-09	.6796E-02
.1510E 02	.2439E 00	-,20o5E-01	,2959E - 07	.7215E-08		-,6108E-09	.6796E-02
.1520E 02	.2418E UU	-,20o5t-01	.2751E-07	.6651E-06		5679E-09	.6796E-J2
.1530E 02	,2397E 00	-,2065E-01	.2558E-U7	.6131E-08		-,5280E-09	.6796E-02
.1540E 02		-,21u5E-01	.237⊍E - U 7	.5650E-08		-,5005E-09	.6796E-02
.1550E 02	•	-,2105E-01	.22115-07	.5206E-08		-,4653E-09	.6796E-02
.1560E 02		-,2105E-01	.2055E-U7	.4797E-08		-,4326E-09	.6796E=02
.1570E 02		-,2105E-01	.1911E-07	.441 9E-0 a		4022E-09	.67 y6E = 02
.1580E 02		-,2105E-01	1776E-U7	.4071E-08		-,3739E-09	.6796E+02
.1590E 02		-,21J5E-01	.1551E=97	.3750E-08		-,3475E=09	.6796E=02
.1600E 02		1918E-U1	.1535E=07	.3453E-08		-,2944E-09	,6796E=12
1610E 02		-,1910E-01	.14276-07	.3183E=08		-,2737E-09	.6796E=02
.1620E 02		-,1918E-01	.1326E=07	.2933E-05		-,2544E=09	.6796E=02
.1030E 02	•	-,1918E-61	.12338-07	.2703E-08		-,2363E-09 -,2198E-09	.6796E=02
.1640E 02	• –	-,1918b-01	1140E=37	.2490E-08		2043E-09	.6796E-02
.1650E 02		-,1910E-01 -,1918E-01	.1055E=07 .9900E=08	.2114E=08		-,1899E-09	.6796E-02
17000E 05	* 5 TO 7 E 0 0		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	* 5 Y T 4 C _ 0 Q	470015-01	- 10 / 70 / 07	.0,,00

F	216	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.1670E 02	.2116E 00	1918E-01	.9202E=06	.1947E-03	40070		
.1680E 02	.2097E UL	1910E-01	. 6553E=08	1793E=03	100/E-01	-,1765E-09	.6796E-02
.1690E 02	.2077E 00	1918E-01	.7949E-U8		·10075-01	1641E-09	.6796E-02
.1700E 02	.2058F 0:	191dE-01	.73 bu E=(10	.1651E-08		-,1525E=09	.6795E=02
.1710E 02	.20396 00	1916E-U1	.6867E=08	.1521E-0 d	•1607E≈01	1417E-09	.67.95E≠U2
.1720E 02	.2u20≈ ut	191db-u1		.1400E-08		1317E-09	.6795E-02
.1730E 02	. 2001 : 90	/1918E=01	.6352E=08	.1289E-08		-,1224E-09	.6795E-02
.1740E 02	.19035 00	1624E-01	.5931E-08	.1187E-08		-,1138E-19	.6795E-02
1750E 02	19675 66	1524E-U1	•5512E=08	.1093E-09		8950E-10	.6795E-02
1760E 02	10516 00	1624E-01	.5123E-08	.1008E-08	•1007E=01	-,83188-10	.6795E=02
.1770E 02	19356 00	1624E-U1	4701E=08	.9288E-09	.1007E-01	7730E-10	.6795E-J2
.1780E 02	10151 00	**1024E=U1	.4424E-08	.8559E-09	·10075-01	-,7183E-10	.6795E-02
.1790E 02	1003 00	1624E-01	.4111E-08	.7887E-09	·1007=-01	-,6676E-10	6795E-02
1800E 02	17465 00	1624E-01	.3821E=08	.7268E-09	·1007E-01	-,6203E-10	6795E=02
.1810E 02	4 .705 UU	1024E-01	.35>0E-08	•6696E=09	.1007E=01	5765E-10	6745E-02
.1620E 02	10540 00	-,1624E-U1	.3299E-38	.0169E-09	.1007E-01	-,5357E-10	.6795E-U2
.1830E 02	13245 00	1624E-01	.3066E=08	.5682E-09	.1007E-01	4978E-10	.6795E-02
.1840E 02	103/6 00	1624E-01	.2649E-08	.5234E=U9		-,4626E-10	.6795E-02
.1670E 02	18215 00	1624E-01	.2647E=U8	.4821E+09		-,4293E-10	.67 45E-02
.1860E 02	1002E 00	1624E-01	.2460E-08	.4439E-09	.1007E=01	-,3994E-10	.6795E-02
18/0E 02	1789E UU	-,1024E-J1	.2236E-08	.4088E-09	.1007E-01	-,3711E-10	.6795E-02
.1880E U2	17/3E UU	-,1333E-01	.2124E-Ga	.3766E-09	.1907E-01	-,2831E-10	6795E-02
.1890E 02	17008 00	1333E-01	.19/3E-63	.3473E-09	.1007E-01	-,2630E-10	.6795E-32
.1900E 02	1/4/E 00	1333E-01	.1833E-03	.3202E-09	.1007E-01	-,2444E-10	.6795E-02
.1910E U2	1733E 00	1333E-01	.17u3E=08	.2953E-D9	.1007E-01	-,2271E-10	6795E-02
.1920E 02	1/205 00	1333E-01	.1563E - 08	.2722E-09	.1007E-01	2110E-10	.6795E-U2
.1930E 02	1/0/6 00	1333E-01	.1471E-08	.2510E-09		19605-10	.6795E-02
.1940E 02	.1093E UU	-,1333E-01	.1366E-98	.2313E-09		-,1821E-10	6745E-02
.1950E 02	1000E 00	1333E-01	.1209E-03	.2132E-09		1692E-10	6795E-02
.1960E 02	100/E 00	1333E-u1	.1179E-08	.1966E-09	.1807E-01	-,1572E-10	6795E-02
.1970E 02	1523E UU	-,1333E-01	.1075E-08	.1811E-09	.1007E-01	1461E-10	.6795E-J2
.1980E 02	110405 00	1333E-U1	.1010E-06	.1669E-09	.1007E-01	1357E-10	.6795E-02
.1990E 02	102/E UU	-,1333E-01	• 9457E=09	.1538E-09		1261E-10	67 952-02
11110E 05	*1012F 00	-,1333E-01	.8785E-09	.1417E-09	.1007E-01	1171E-10	.6795E=02

SPECTRUM AVERAGE CRUSS SECTION = .1007E-01

TI-47(N, N-P)SC-46 U-235 FISSION SPECTRUM



TI-47(N.N-P)SC-46 U-235 FISSION SPECTRUM

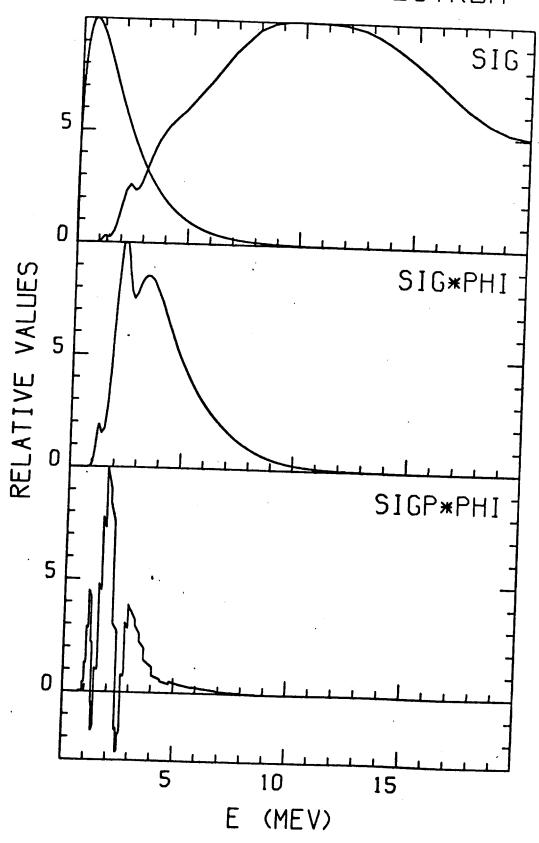
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.1070E U2	,	.1435E-06	.7101E-06	.2113E-14	.2228E=13	,1056E-12	22745 14
.1080E 02				.1180E-13			.2234E+11
.1090E 02		.1428E-06	.0134E-06	·2014E-13		.9835E-13	.1243E=1U
.1100E 02	.4761E-U/		5729E-06	.2728E-13		9156E-13	.2191E-10
.1110E 02	.6248E-07	,1456E-06	.53335-06	.3332E-13	./772E=11	.8524E-13	.3075E-1J
.1120E 02			.4965E-06	.3841E-13		.7934E-13	.3897E-10
.1130E 02	9224E=07		4621£-36	.4262E=13	1137E-10	.7386E-13	.4662E-1u
.1140E 02	.1471E-00	.1408E-06	.4301=06	.4607E-13	.1343E-10	.6875E-13	.5375E-10
•1150E 02	1639=05	.3667E-U4	.4003E-06		19875-10	.6399E-13	.6038E≈15
.1100E 02	,5506E-05	.3667E=04	.37258-05	.7360E=12	·41305-10	.1468E-10	.7804E-J9
.1170E 02	9173E-05	.3667E-04	3455E=06	.2051E-11	.1930F-09	.1366E-10	.2196E=06
.1180E 02	.1284E-04	.3657E=04	.3227E-06	.3181E-11	4466E-09	.1272E-10	.3514E-u3
.1190E 02	1001c-04	.3667E-04	.3003E=06	.4144E-11	.8146E-09	.1183E-10	.4741E-U8
.1200E 02	.2018E-64	.3657E-04	.2795E=06	4957£-11	.1271E-08	.1101E-10	.5ძყან≕სგ
.1210E 02	23646-64	.3067E-J4		.5638E-11	·18026-08	.1025E-10	.6945E-09
,1220E 02	2751E-04	.36c7E=n4	.2600E=06	.6200E-11	.2396E-08	.9537E-11	.7935E=u8
.1230E 02	1014c-03	9931£-03	.242∪E=06	.6657E-11	·3J395=08	.8874E-11	.6853E-08
.1240E 02	2012=03	.99c1E=03	.2251E=06	•2282E-10	.4319E-08	,2247E-09	.2615E=07
1250E 02	.3010E-03	.9901E=03	.2095E=06	4214E-10	•7601E=08	.2091E-09	.4783E-07
.1260E 02	40086-03	.9951E-U3	19492-06	•>866E-10	.1267E-07	•1945E-09	.6799E-07
.1270E 02	5000E=03	.9981E-03	.1613E-06	.7268E-10	.1y27E-07	.1810E-09	.8675E-07
1280E 02	.5004E=U3	.9981E-03	.1557E-06	.8445E-10	.2715F-07	,1684E-09	.1042E-06
1240E 02	7002E-03	.9981E-US	.1570E=06	.9424E-10	•3510E=07	.1567E-09	.1204E=06
.1300E 02	8000E-03		.1460E-u6	.1022E-03	.4594E-07	.1457E-09	.1356E-06
1310E 02	1787E-02	,9d70E⇒j2 .9b74E=02	.1350E-06	.1087E-09	•5650E - 07	.1341E-08	.1508E-06
1320E 02	2775E-02		.1264E-06	2259E-09	.73445-07	.1248E-08	.28J2E-06
1330E 02	.3762E-02	.9d74E=02	.1175E=06	.3262E-09	•1012E=06	.11516-08	.4005E-06
1340E 02	475UE-02	.9074E-02 .9074E-02	.1093E-06	.4113E-09	.1383E=06	.1080E-08	.5124E-06
.1350E 02	5737E=62	.9574E-02	.1017E-06	.4830E-09	.1831E-06	.10U4E-08	.6165E-06
.1360E 02	6724E+02	.2090E-u1	.9459E-07	.5427E-09	.2345E-06	.9340E-09	.7133E-06
.1370E 02	8815=02		.8743E=07	.5916E-09	•2914F - 06	.1838E-05	.8044E-36
.1380E 02	,1090E-01	,2090E-01	.8183E-07	.7213E-09	.3573 ≘ -06	.1710E-08	.9817E-U6
.1390E 02		.2090E-01	.7611E-J7	.0299E-09	•4350 <u>5</u> -06	.1591E-08	1147E-U5
.14U0E 02	.1299E=01	.2040E-01	.7075E-07	.9198E-09	.5227E=06	•1479E-08	.1300E-05
.1410E 02	1508E-01	.2096E-01	.6503E=07	.9930E-09	.6185E-06	.1376E-08	.1445E=05
.1420E 02	17175-01	.2090E-61	.6122E-07	.1051E-05	.7209E-06	.1280E-08	1573E-05
.1450E 02	.1925E-01	.3955E-U1	.5693E-07	.1097E-03	.5284E-06	.2252E-08	.1760E-05
.1440£ J2	.2322E-01	.3956E-01	5294E-07	•1229E-03	.9450E=U6	.2094E-08	.1917E-05
	27186-01	.3956E-01	.4923E-17	.1338E-08	.1074E=05	.1948E-18	.2114E-UD
.1450E 02	.3113E-01	3956E-C1	.457st=07	.1425E-08	12125-05	.1811E-08	.2307E-05
	.3509E-u1	.3956E-01	.4257E-07	.1494E-08	.1358E-05	.1684E-08	.2461E-05
•1470E 02	.3904E-U1	3950E-01	.3959E-u7	•1546E-08	,1510F-05	.1566E-08	.2644E-05
1480E 02	.4300E-01	.5403E-01	.3031E-07	.1583E-08	.16675-05	.2136E=08	2795E-05
.1490E 02	.4680E-01	.5004E-01	.3422E-07	.1670E-U3	.1830E-05	.1986E-08	.3001E-05
.1500E 02	,5461E-U1	.5004E-01	.3182E-07	.17385-08	.2000E-05	.1847E-08	3193E-05
.1510E 02	.6041E-01	.5304E-01	.2959E-07	•1787E-08	.2177E-05	.1717E-U8	.3371E-UD
.1520E 02	.6022E-U1	.6264E-01	.2751E-07	.1822E-08	.2357E-05	.1723E-18	.3537E-05
.1530E 02	.7248E-U1	.0264E-61	.25>8E-07	.1854E-08	.2541E-05	.1602E-)8	.3703E-05
.1540E 02	.7875E-01	.6264E-U1	.2375E - 67	.1872E-08	.2/28F -05	.1469E-08	.3857E-05
.1>>0E 02	.8501L-U1	.6204E-01	.22116-07	.1879E-08	.2915E-05	.1385E-08	.40u1E=u5
•1500E 02	,9127E-01	.5432E-u1	.205>E-07	.1876E-08	.3103E-05	.1116E-08	.4134E-U5
							, , au : c : u /

TI-47(N.N-P)SC-46 U-235 FISSIAN SPECTRUM

E	SIG	SIGP	PHI	SIG*PHI	۶	SIGP*PHI	G
.15/0E 02	.9671E=U1	.5431E-01	.1911E=u7	.1848E-08	.3289E=05	.1038E-08	.4242E=05
.1560E 02		54316-11	1770E-U7	.1814E-08	.3472E-05	.9647E-09	4342E-05
,1590E 02		.5431t-u1	.16>1E-07	.1776E-08	.3652E -05	8968E-09	4435E-J5
.1600E 02		3>57E=01	.1>35E-07	.1734E-08	38275-05	5475E-09	4521E=05
.1610E 02	,	.3566E-01	.1427E-67	.1663E-08	3997E-05	.5087E=09	4574E-C>
.1620E 02	1201E 00	.3566E=01	.1326E-U7	.1593E-08	4160E-05	4729E=09	.4623E-05
.1630E 02	.1237E ûU	.3766E-01	.1233E-07	.1525E-08	.4316E-05	.4396E-09	.466HE-J5
.1640E 02	.1273E 0C	.3566E=u1	.1140E-07	.1458E-08	44655-05	4086E-09	4711E=05
16>0E 02	1298E UU	.2044E-01	.10o5E=07	.1383E-06	.4607E-05	.2177E-09	.4739E-05
.1060E 02	.1319E UO	.2044E-01	.9900E=68	.1305E-08	.4742 Hau5	.2023E-09	4760E=15
.1670E 02	.1339E 00	,2J44E-01	.9232E=08	.1232E-08	.4368F-05	.1881E=09	.4779E=05
.1080E 02	,1359E UU	.2044E-01	.85>3E=08	.1163E-08	.49884 - 05	.1748E=09	4797E-05
.1690E 02	.1377E 00	,1314E-01	.79495-08	.1095E-08	.5101E-05	.1045E=09	.4812E-)5
.1700E 02	.1391E 00	.1314E-01	.73≾oE=ú6	.1027E-08	.5207E-u5	.9709E-10	.4822E-05
.1710E 02	.14U4E UU	.1314E-01	.6867E⇒08	.9639E-09	.5306F-U5	,9023E-10	.4832E-05
.1/20E 02	,1417£ uu	.1314E-01	.63a2E=06	.9042E-09	.5400E-U5	,8386E-10	.4840E-35
,1730E U2	.1430t OU	.1262E-01	.5931E - 03	.6481E-U9	•5487⋸≠05	.7487E-10	.4848E=65
.1/40E 02	.1443E UC	.1262E-01	.55126-08	.7952E-09	.5569E-05	.6958E-10	,4855E-Dj
.1750E 02	,1455E 00	.1252E-01	.5123E=08	.7455E-09	•5646E=05	.6466E-10	.4862E-05
.1760E 02	.1408E 00	.1262E=71	.4761E=û8	.6988E=09	.57 19 8+05	.6009E-10	.4869E-J5
,1770E 02	.1460Ê 00	.1262E-01	.4424E-08	.6550∈-09	•5786E - 05	.5584E-10	.4874E-05
.1/80E 02	.1493E UU	.1262E-U1	.4111E-06	.6139E-09	.5350E=05	.5189E-10	.488CE-J5
.1790E 02	.1506E 0U	.1262E-U1	.38212-08	.5753E-09	.5409E-05	,4822F-10	,48∂5E=05
.1800E 02	.1518E 00	.1262E-01	,35⊃úE=uo	.5391E-09	.59656-05	.4481E-10	.4659E-uj
1810E 02	.1531E 00	.1262E-01	.3299E-08	.5051E-09	.6017E-05	,4164E-10	.4894E-J5
.1820E 02	.1544E 00	.1370E-01	.3000E-08	.4732E-09	.6366€-05	.4200E-10	. 48 93E→Jj
.1830E 02	1557E 00	.137UE-01	.2849E-08	.4436E-09	.0112E-05	.3903E-10	.49J2E-05
.1840E 02	.1571= UO	•1370E-01	,264/E-08	4159E-09	.0155E-05	.3627E-10	.49U6E-U5
.1850E 02	.1565E 00	.1370E-01	.246 UE-118	.3898E-09	.6195E+05	.3370E-10	.4909E-65
.1860E 02	15 98E UU	.1370E-01	.2286E-08	.3653E-09	.5233E-05	.3131E-10	.4912E-03
.1870E 02	,1612E 00	.13/0E-01	.2124E-03	.3424E-09	.6268E-05	.2909E-10	.4915E=05
.1880E 02	.1626E 0u	.1370E-01	.1973E-08	.3208E-09	.0301E-05	.2703E-10	.4918E-05
.1890E 02	.1639E 00	.1370E-01	.1833E=08	.3006E-09	.6332E-05	,2512E-10	.4921E-05
.1900E 02	.1653E UO	.1370E-01	.1703E-08	.2816E-09	,6361F-05	.2334E-10	.4923E=05
	1667E UU	.1479E-01	.1583E-09	.2638E-09	.6388E=05	.2341E-10	.4925E-U5
	.16825 00	.1479E-01	.1471E=08	.2473E-09	.6414E-05	.2175E = 10	4928E-U5
.1930E 02	.1696E UU .1711E UU	.1479E-01 .1479E-01	.1366E=08	.2318E-09	.6438E-05	.2021E-10	4930E-05
.1950E 02	.1/11E 00	.1479E-01	.1259E=08 .1179E=08	.2172E-09	.6460E=05	.1877E-10	4932E=05
1960E 02	.1720E 00	•1479E=U1	.11/9E=08		.6481E=05	.1744E=10	4934E=0>
.19/0E 02	.1750£ 00	.1479E=01	.1010E=08	*1907E=09	.0501E=05	.1620E-10	4935E=05
.1980E 02	.1770E 00	.1479E=01	.9457E-U9	.1/8/E-09	.6520E=05	.1505E-10	.4937E-05
.1990E 02	.1785E 00	.1479E-01	.6756E=09	.1568E-09	.6553E=05	.1399E-10 .1299E-10	.4936E=05
	11.025 00	174/107	10/006-09	.17086-03	107706-07	116775-10	• 77746707

SPECTRUM AVERAGE CHOSS SECTION = .6566E-05





TI-4/(N.P)SC-47 U-230 FISSION SPECTRUM

E	SIG	SIGP	PhI	5IG*PHI	F	SIGP•PHI	G
.6000E 0v	.7246E-09	.7246E-08	.3678E-03	.2665E-12	1341E=10	.2665E-11	.2675E=99
.70U0E 00	.5040E-U5	.9413t-05	.30615-63	.2152E-09	.6 2 JE - CB	.3465E-08	.21oo£=yo
.5000E 00	5387E-05	.1763E-03	.3647E-U3	.1964E-08	.6327E=07	.6210E-07	.2033E-U5
.9000E 00	2242E=04	.17)3E-J3	.3584E-03	8035E-08	.5563F=06	.6104E-07	.8193E-J5
.1000E 01	20276-03	.4521E-02	35U1E-U3	.7098E-07	.3628E-05	1616E-G5	.7344E=i14
.1100E 01	.9378==33	.1041E-01	.34 USE = 03	.3089E-06	.2943E+04	3541E-05	.3182E=U3
.1200E 01	.2374c-02	.1524E-01	3294E-23	.7819E-06	.73385-04	5349E-05	.8104E-03
.13UDE 01	.3614E=02	.8563E-02	3177E=03	.1148E-05	.1734E-03	.2720E-05	.1210E-J2
.1400E 01	.3291E=02	6375E-02	3055E=03	.1005E-05	.2d436=03	1948E-05	.1106E-J2
.1500E 01	.3402i =02	.4312E-62	,293UE-03	.9969E-06	.3811E=03	.1264E-05	.1141E=02
.1000E 01	44926-02	,2u79E-J1	.280⊃E=03	.1260E-05	.4×86E=03	,5830E-15	.1456E=u2
.17U0E 01	.6720E+02	,35c7E-u1	,2679E=03	.1800E-05	.6405E-03	,9555E=05	.207JE-02
.1800E 01	1029=-01	.3567E-01	.2554E=03	.2628E-05	.5631E=03	.9111E-05	.30032-02
.1900E 01	,1491E-01	.4062E=01	.2432E-03	.3625E-05	•1174E=02	.1187E-04	.4156E-U2
.2000E 01	.1979==61	.4 od 2E - 01	.2312E-03	.4576E - 05	.15 86E = 02	.112 9E -04	.5314E-02
.2100E 01	.244UE-U1	.4543E=01	.2150E=03	.5357E-05	.2084E-02	.9976E-05	.6352E=02
.2200E 01	.2894E-01	.4543E=61	.20ห3E⇒แ3	.6028E-05	.26555-02	,9462E-05	.7324E-02
,2300E 01	.3131E-01	.1A24E-01	.1973E-03	.6179E-05	.3270E=02	.3600E-05	.7801E-32
.2400E 01	.3314E-u1	11 - 4E - 11	.18a5E=03	.618 9E-05	•3¤39E-02	,340 8E +05	.8151E-02
.25UOE 01	,3259E-01		.1767E=05	.5758E-05	4490E-02	-, 3254E - 05	.8048E-02
.2600E 01	,3085E-01	. –	1670E-03	.5156E-05	.5034E-02	22706-05	.7754E-J2
.2700E 01	.3050E-01	.5949E-02	.157/E-03	.4808E-05	•55285-02	,9360E-06	.7693E-32
.2800E 01	.3142E-01	.2536E-01	.1438E-03	.4674E-05	.6000E-02	.3773E-05	.7636E=42
.2900E 01	.3395E-U1	.2536E-01	.1403E-03	.4764E-05	.64725-02	,3558E-05	.9505E-05
.3000E 01	, 3727E-U1	.3469E-01	.1323E=03	.4929E-05	.6957ë=02	.458 dE -05	.8654E-J2
.31U0E 01	.4075E=U1	.3510E-01	.12465=03	.5077E-05	7457E-02	,4372E-05	.9102E-02
.3200E 01	,4426E-U1	.3510E-01	.1173E-03	.5192E-05	.79715-02	.4117E-05	.9526E=02
.33UDE 01	47646-01	.3231E-01	.1104E=03	.5259E-05	.8494E-02	.3566E-05	.9911E=U2
.3400E 01	.5087E=01	.3231E-01	.1030E=03	.5282E-05	• 90 21 E = 02	.3354E-15	.1026E+01
.3500E 01	.5392c=01	.2001E-01	.9762E=04 .9175E=04	.5264E-05	99495-62	,2734E-05	1056E=01
.3700E 01	59225-01	.2049E-01	.8619E=U4	.5204E-05	.1007E-01	.25705-05	.10d3E=01 .1105E=01
3800E 01	.0127E=01	.2049E-01	.8095E-04	.4960E-05	•1109E=01	.1659E=05	.1122E-01
.39U0E 01	.6332ē-u1	.2049E=01	.7599E=84	.4812E-05	.1158E=01	.1557E-J5	.1135E=01
4000E 01	.5537E=U1	.2u49E-01	.7152E=04	.4662E-05	.1205E-01	.1461E-05	.1153E=01
.41U0E 01	6/096-01	.1392E-01	.6691E=04	.4489E-05	.1251E-01	.9313E-C6	.1165E=01
4200E 01	.6848E-91	.1392E-01	.6276E=94	4298E-05	12955-01	.8734E-06	.1174E=91
.4300E 01	69878-01	.1392b-01	5004E=04	4112E-05	1337E-01	.8190E-06	.1183E-01
4400E 01	7126E-01	.1392E-01	.>516E-114	.3931E-05	1377E-01	.7677E-06	.1191E-J1
4500E 01	.7254E-61	.1200E-u1	5169E=04	.3750E-05	.1416E-01	.6203E-06	.1197E-U1
4600E 01	7374E-U1	.1200E-01	.4643E=04	3571E-05	.1452E-01	.5812E-06	.1263E-01
.4700E C1	7494=-01	.1200E-01	4537E-04	.3400E-05	.1467E-01	.5444E-06	.1269E-01
4800E 01	76146-01	.1260E-01	4247E=04	3235E-05	15235-01	5096E-06	.1214E-01
.4900E 01	77576-01	.1533E-01	.3973E=04	.3086E-05	1752E-01	.6100E-06	.122UE-01
.5000E 01	.7911E-01	.1>33E+01	.37245-04	.2946E-05	.1582E-01	.5710E-06	.1226E-u1
.5100E 01	.8064E-U1	.1533E-01	.3485E=04	.2810E-05	.1611E-01	.5344E-06	.12325-01
.5200E 01	3217E-01	.1533E-01	.3261E=04	.268JE-05	.1638E-01	.5001E-06	.1237E-01
.53U0E 01	.3371E=01	.1533E-U1	.3051E=04	.2554E-05	.1564E=01	.4678E-06	.1242E=01
.5400E 01	.8524E-U1	.1533E-01	.2854E-04	.2433E-05	15895-01	.4376E-06	.1246E-U1
.5500E 01	,0077c=01	.1533E-01	.2669E=04	.2316E-05	.1713E-01	,4093E-06	.1250E-01

F	S1G	SIGP	PhI	SIG*PHI	F	SIGP*PHI	G
.5600E 01	,0031E-u1	,1533E-01	.2496E=04	.2204E-05	.17365-01	.3827E-06	.1254E=01
.5700E 01	.d984E=U1	.1533E-01	.2333E-04	.2096E-05	.1757E-01	•	.1254E-01
.5800E 01	9137E-01	.1533E → 01	.2151E-04	.1993E-05	1778E-01		
.5900E 01	9293c-U1	15y3t=01	.2030E-04	.1894E-05	•17976±01		.1261E-01
.6000E 01	.4462E-U1	1693E=31	1900E-04	.1803E-05	.1816E=01	• • • • • •	.1265E-J1
.6100E 01	9531E-U1	.1093E-01	176JE-04	.1714E-05	.18335-01	.3013E-06	.126cE=U1 .1271E=∩1
.6200E 01	9601E-01	.1693E-01	.1603E=34	.1630E-05	.1450E=01	.2815E-06	.1274E=01
.03UDE U1	997UE-U1	.1693E-01	.1553E-04	.1549E-05	10665-01	.2630E=06	.1277E=01
.64UDE 01	.1014E GU	.1693t=01	.1451E-04	.1471E-05	.1081E=01	2456E-06	.1277E-01
.6>00E 01	.1031E 00	.1593E=01	1355E=64	.1397E-05	.1895E-01	.2294E-06	.1202E=01
.66UDE 01	.1048E GU	.1693E-01	.1262E=04	.1326E-05	1909E-01	.2142E-06	.1264E=01
.6700E 01	.1065E 00	.1693E-u1	.11 o1E = 04	.1258E-05	.1922E-01	.2000E-06	.12 86E=01
.6600E 01	.1082E 60	.1643E-01	.1103E-04	.1193E-05	.1934E-01	,1867E-06	.1205E-01
.6900E 01	.1099£ 00	.1643E-01	.1029E-04	.1131E-05	19465-01	.1743E-06	.1290E=01
.7000E 01	.1113E 00	.1269E-61	.9609E=05	.1070E-05	.1957E-01	.1219E-06	.1291E-U1
.7100E 01	.1126£ 00	.1269E-01	. 6960E=05	.1010E-05	,1967E-01	,1136E-06	12926-01
.7200E 01	.1138£ UL	.1269E-01	.8367E-05	.9528E-06	.1977E-01	.1062E=06	.1293E=01
.7300E 01	.1151E 00	1269E=01	.7809E-05	8989E-06	.1986E-01	.9910E-07	.1295E=01
.7400E 01	.1164E 60	.1209E-J1	.7286E-95	.6480E-06	.1995E-01	9246E-07	.1295E-01
.7500E 01	.1177E UU	1269E-01	67475-05	.7997E-06	.20038-01	.8626E-07	.1296E-01
.76U0E 01	.1169E 0U	.1269E-01	.6341E-05	.7540E-06	.2011E-01	.8046E-07	.1297E-01
.7700E G1	.1202E 00	.1269E=u1	.5914E-05	.7108E-06	.2018E=01	.7505E-07	.129dE-u1
.7800E G1	.1215E GU	.1269E-01	.5516E-05	.6700E-06	.2025E-01	.7000E-07	.1299E-01
.7900E 01	.1227E UO	.1269E-U1	.5144E-U5	.6314E-06	.2031E+01	.6528E-07	.1299E-U1
.80U0E 01	.1240E 0U	.5035E-U2	4797E-05	.5949E-06	.2036E-01	.2799E-07	.1300E-01
.8100E 01	.1246E UD	.5835E=J2	.4473E-05	.5573E-06	.2043E-01	2610E-07	.1300E-01
.62U0E 01	.1252E 00	.5035E-L2	4171E-05	.5220E-06	-2149E-01	,2434E-07	.1301E-61
.8300E 01	.1258E UO	.5835E=u2	.36ddE=05	.4890E-06	.2054E-01	.2269E-07	.1301E-U1
.8400E 01	.1263E 0U	.5635E-U2	.3625E=05	.4580E-06	.2058E-C1	.2115E-07	.1301E-01
.8500E 01	.1269E UU	.5835£-02	.3377E-05	.4289E-05	.2063E-01	.1972E-07	.13u1E-u1
.8600E 01	.1275E 00	.5035E-02	.315UE-05	.4016E-06	.2067E-01	.1838E-97	.1301E-(1
.8700E 01	.1279E 00	.1740E-02	.2936E-U5	.3756E-06	.2071E=01	.5109E-08	.1301E-U1
.8800E 01	.1281E UU	.1740E-02	.2730E-05	.3506E-06	.2075E-01	4761E-08	.13J2E-01
.8900E 01	.1263£ UU	.1740E-02	.2550E-05	.3271E-06	.2078E-01	.4437E-08	1302E-01
.9000E 01	.1265E 00	.1740E-92	.2376E-05	.3053E-06	.2081E-01	4135E-06	.1302E-01
.9100E 01	,1286E UO	.1740E-02	.2214E-05	.2848E-06	.2084E-01	.3853E=08	.13u2E=u1
.92U0E 01	.1258E 00	,1740E-32	.2063E-05	.2658E-06	.2087E-01	.3590E-08	.1302E=01
.9300E 01	.1290E UO	,174UE-02	.1922E-u5	.248GE-06	.2089E=01	.3345E-08	.1362E-01
.94UDE 01	.1290E 0U	75uGe-04	.1/91E-05	.2311E-06	.2 192E -01	1343E-09	.1302E-01
.9500E 01	.1290E UU	7500E-04	,1608E-05	.2153E-06		-,1251E-09	.1302E-01
.96UOE 01	.1290E 06	-,7500E-∪4	.1>54E-05	.2005E-06	.2096E-01	-,1166E-09	.1302E=01
.9700E 01	.12 y0E UU	750CE-64	.144JE=05	.1868E-06	.2096E-01	1086E-09	.1302E-01
.9800E 01	•	75uüE-04	.1345E-u5	.1740E-06		1011E-19	.13u2E-01
.9900E 01		-,7500E-64	.1256E-J5	.1620E-66	.21025-01	9419E-10	.1302E-01
.1000E 02		1066E-C3	.117JE-05	.1509E-06		1949E-09	.1302E-01
.1U10E 02		1667E-J3	.1069E-05	.1405E-06	.2105E=01	1816E-09	.1302E-01
.1020E 02		1667E-u3	.1U14E=05	.1308E-06	.2106E=01	-,1691E-09	.1302E-01
.1030E 02		1667E-03	.9447E-U6	.1218E-06		1575E-09	.1302E-U1
.1040E 02	•	-,1607E-03	.87975-06	.1134E-06		-,1466E-09	.1302E-01
.1050E 02	,1289E UU	1667E-03	,81y1E=0o	.1056E-06	.2109E-01	-,1365E-09	.1302E-01

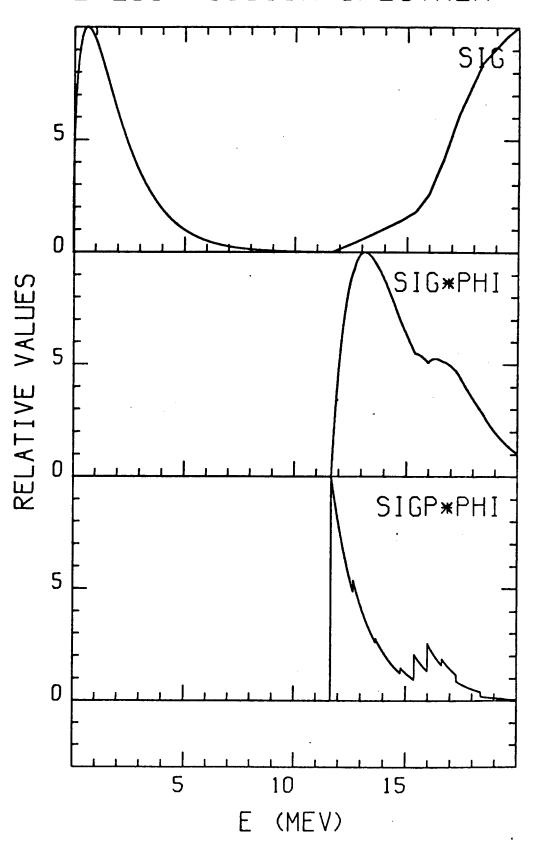
٤ .	SIG	Ş	SIGP	PHI	SIG*PHI	F	SIGPOPHI	G
.1060E 02	.1289	€ 801	1667E-03	.7627E-06	09745-63		·	
.1070E 02			1067E-03	.7101E=06	9831E=07	,	1 - 1271E-09	.1302E-U1
,1080E 02	1289	F 60 - 1	1667E-33	.6611E-UA	.9152E=07		1 -,1153E-J9	•1362E=J1
.1090E 02	1289	- 00 - 9	9998E-03	.6154E=05	•6519E-07		11102E-09	.1302E=01
.1100E 02			しゅうひとっして	•5729E=06	.7930E=07		1 -,6153E-n9	.1332E=01
,1110E 02			LUGUE-02	.5333E=16	.7376E-07		15729E-09	,13u2E-U1
.1120E 02			LU 0 U E = 62	.4905E=05	.6861E-07		1 -,5333E-09	.1302E-01
.1130E 02	•		1000E=02	.4621E=06	.6382E-07		1 -,4965E=09	.1302E-J1
.1140E 02	,	- 00 - 1	000000		.5936E-07		14621E-09	.1332E-U1
.11>0E 02			1000E-02	4301E=06	•5521E-07	•2116E-U	L -,4301E-09	.1302E-01
.1160E 02			.000E-02	.4003E=06	.5134E-07	.2117E=0:	14003E-09	.1302E-01
.11/0E 02			.000E-02	.3720E-06	.4775E-07	•2117E=01	L -,3726E-09	.1302E-01
.1180E 02	,	. (.1) - 3	2776-02	.3460E=06	.4440E-07	.2118E-01	L -,3468E-09	.1302E=01
,1190E 02		00 - 3	278E-U2	.3227E=06	412 9E -07	•2118E-01	1057E-08	.1302E-01
.1200E 02	,	: 003	2146-02	.3003E-06	.3833E-07	•2119E=01	-,9843E-09	.1302E-01
.1210E 02	. 12705	003	2706-02	.2795E-06	3557E-07	.2119E=01	916UE-09	.1302E=01
.1220E 02	. 12660	vu -,3	2705-02	.2600E-06	.3302E-07	.2119E-01	8524E-09	.1302E-01
.1230E 02	12630	00 -,3	2705-02	.2420E-06	.3064E-07	.2120F-01	-,7931E-09	.1302E-01
1240E 02	12600	00 3	2708-02	.2251E-06	.2844E-07	.2120E=01	-,7380E-09	.1302E-01
.1250E 02	12570	00 - 3	2/05-02	.2095E=06	•2639E-07	.2120E-01	-,6867E-09	.1302E-01
.1260E 02	12575	003	2/0E=02	1947E-06	.2449E-07	·2121E-01	-,6389E-09	.1302E=01
.1270E 02	12500	003.	2/05-02	.1813E-66	.2273E-07	.2121E-01	-,5944E-09	.1302E-01
.1280E 02	12706	UU -,5	450E=62	.165/E-06	.2109E-U7	.2121E-01	1000E-08	.1302E-u1
1290E 02	40440	405	323E=15	1570E-06	·1953E-07	.2121E-01	-,9306E-09	.1352E-01
1300E 02	175305	005	929E=02	.146UE-06	.1808E-07	.2121F-01	6657E-09	1302E-01
1310E 02	12266	00 - ,5	9296-02	.1350E-06	.1674E-07	.2122F-01	8053E-09	.1362E-01
.1320E 02	12206	00 -,5	929E=02	.1264E-06	.1550E-07	.2122E-01	-,7491E-09	.1302E-01
.1330E 02	12136	00 - ,7	929E=02	.1175E-06	.1434E-07	·21225-01	-,6969E-09	.1302E-U1
1340E 02	12060	00 -,76	540E=UZ	.1093E-06	.1327E-07	•2122E-01	-,8354E-09	.1302E-01
13>0E 02	11050	0076	440E - UZ	.1017E-06	.1226E-07	,2122E=01	-,7770E-09	.13u2E=u1
.1360E 02	11 002	00 -,76	04UE=UZ	.9459E-07	.1133E-07	·21226-01	-,7227E-09	.1302E-01
.1370E 02	11500	00 -,76	106-02	. £7 98E = 07	•1047E-07	.2122E-01	-,6722E-09	.1302E-01
1380E 02	11750	0009	171E - 02	.8183E-07	.9678E-08	.2123E-01	6252E-09	.1302E=01
.1390E 02	11465	0089	3316-62	.7611E-U7	.8940E-08	.2123E-01	-,6797E-09	.1302E-u1
.1400E 02	11575	00 -,03	731E=12	.7078E-67	.3251E-08	21235-01	-,6321E-J9	.1302E=61
.1410E 02	1111/	00 - 89	731E=02	.6553E=07	.7615E-08	.2123E-01	5879E-09	.1302E-U1
1420E 02	11305	0089	131E-02	.6122E-07	.7027E-08	.2123E-01	-,5467E-09	.1302E=01
.1430E 02	11305	0089	315-02	.5693E-07	.6484E-08	.2123E=01	5084E-09	.13u2E=U1
.1440E 02	11305	0097	E8E=02	.5294E-07	.5983E-08	.2123E-01	5182E-19	.1302E-01
.1450E 02	• 1120E	0097	788E=02	.4923E=07	.5515E-08	.2123E-01	-,4819E-09	.1302E-01
.1460E 02		00 -,97		.4575E=07	.5084E-08	•2123E-01	-,4481E-09	.1302E-01
.1470E 02	11015	0097	88E-02	.4257E-07	.4686E-08	.2123E-01	4167E-09	.1301E-01
-1480E 02	11.61.	0097	005-02	.3959E-07	.4316E-08	.2123E-01	3875E-09	.1301E-01
.1490E 02	1 71	0097	68E=02	.3601E-07	.3979E-08	.21238-01	-,3603E-09	.13U1E=U1
.1500E 02	1040	0010	02E-01	.3422E-07	.3665E-03	.2123E≖01	-,3634E-09	.1301E-J1
.1510E 02	1.0002	0010	54E-01	.3152E-07	.3374E-08	.2123E-01	-,3379E=09	.1301E-01
.1520E 02	10300	0010	04E=01	.2959E=07	.3106E-08		31425-09	.1301E-01
.1530E 02	10395	0010	02E=U1	2751E-07	.2859E-08	.2123E-01	-,2921E-09	.1301c=01
1540E 02	1019t	6010	02E=01	.2558E-07	,2630E-08		-,2716E=09	.1301E-J1
.1550E 02	10070	0010	02E-01	.23738-07	.2420E-08	.2123E-U1	-,2525E-09	.1301E-01
	• T00/E	0011	30E=01	.2211E-07	.2226E-08	.2123E-01	-,2511E-09	.1301E-01

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Ė	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.1560E 02	.9954E=U1	-,1136E-01	.2055E-07	.2046E-08	.2123E-01	-,2334E-J9	.1301E-01
1570E 02		1130E-01	.1911E-07	.188CE-08		217DE-09	.1301E-u1
.1580E 02		1130E-61	.1776E-07	.1728E-08		2017E-69	.1301E-01
1>90E 02		1136E-01	.1551E-07	.1587E-08		-,1875E-09	.1301E-01
.1600E 02		1191E-01	.1535E=07	.1458E-08		1828E-09	.1301E-01
.1610E 02	.9381E-01	1191E-01	.1427E-67	.1338E-08	.2124F=01	-,1700E-09	1301E-01
.1620E 02	9262E-U1	1191E-01	.1326E-07	.1226E-08	.2124E-01	1580E-09	.1331E-01
.1630E 02	.9143E=U1	11y1E-u1	.1233E-07	.1127E-08	.2124E=01	-,1469E-09	.1301E=01
.1640E 02	.9024E-01	1191E-01	.11465-07	.1034E-08		-,1365E-09	.1301E-01
.1650E 02		-,1175E-01	.1605E-67	.9485E-09		-,1252E-09	.1301E-01
.1660E 02	.8788E-01	-,1175E-01	,9900E-08	.6700E-09	.2124E-01	-,1163E-09	.1301E-01
.1670E 02	.0070E-01	1175E-61	.9252E=08	.7976E-09	.2124E-01	1081E-09	.13C1E=01
.1680E U2	.8553E-01	-,11/5E-01	.6553E=uA	.7315E-09	.2124E-01	1005E-09	.1301E-01
.1690E 02		-,1045E-J1	.7949E-0o	.6708E-09	.2124E-01	8706E-10	.13J1E-U1
.1700E 02	.8329t-01	-,1095t-v1	.73dgE=08	.6153E-09	.2124E-01	8091E-10	.1301E-01
.1/10E 02		-,1u95E-61	.6867E-08	.5644E-09	.21245-01	7520E-10	.13u1E-01
.1720E 02	.511UE-U1	1u95E-01	.6362E=06	.5175E-09	.2124£-01	-,6989E-10	.1301E-01
.1730E 02	.8000c=U1	-,8/186-02	.5931E-08	.4745E-09		5171E-10	.1301E-01
.1740E 02		-,8717E-32	.5512E-18	.4362E-09		-,4805E-10	.1301E=01
.1750E 02		87176-02	.5123E-U8	.4009E-09		4465E=1U	.13u1E-U1
.1760E U2		-,8717E-u2	.4701E-00	.3684E-09		-,4150E-10	.1301E-01
.1/70E 02		8717E-02	.4424E-08	.3385E-09		-,3856E-10	.1301E-01
1780E 02		-,8717E-02	.4111E-08	.3110E-09		-,3584E-10	.1501E-01
.1790E 02		8717E-62	.3821E-08	.2857E-09		3330E-10	.1301E-01
.1800E 02		8717E-02	.3550E-08	.2624E-09		3095E-10	.1301E-01
.1810E 02		6/17t-02	.3299E=00	.2409E-09		-,2876E-10	.13u1E-u1
.1820E 02		-,5558E-û2	.3066E=08	.2212E-09		-,1704E-10	.1301E-31
.1830E 02		5>>0E-02	.2849E=08	.2040E-09		1583E-10	.1301E-01
.1840E 02		5556E-02	.2647E-68	.1881E-09		-,1471E-10	.1301E=01
.1850E 02		-,5556E-u2	.2460E-08	1734E-09		1366E-10	.1301E-01
.1860E 02		-,5556E-02	.2286E-U8	.1598E-09		-,1270E-10	.1301E-01
.1870E 02		-,5050t-02	.2124E-08	.1473E-09		-,1180E-10	.1301E-01
1880E 02		5556E-02	.1973E-C8	.1358E-09		-,1096E-10	.13u1E-01
.1890E 02		•,5>56E-02	.1833E-UB	.1252E-09		-,1019E-10	1301E-01
.1900E 02		-,>556E-02	,17u3E-08	.1153E-09		-,9464E-11	.1301E=01
.1910E 02		2397E-02	.15 x3E- 08	.1063E-09		3794E-11	.1301E-01
.1920E 02		-,2394E-u2	.1471E-08	.9840E-10		-,3521E-11	.1301E-01
.1930E 02		-,2394E-02	.1366E-U8	.9110E-10		3271E-11	1301E-U1
.1940E 02		2394E-02	.1269E=03	.8433E-10		-,3039E-11	.1301E-01
.1950E 02		2394E-62	.1179E=08	.7807E-10		-,2824E-11	.1301E-01
.1960E 02		-,2394E-02	.1096E+06	.7227E-10		-,2623E-11	.1301E-01
.1970E 02		-,2394E-L2	.1016E-J8	.6690E-10		-,2437E-11	.1301E=01
.1980E 02		2394E-02	.9457E-09	.6192E-10		-,2264E-11	.1301E+01
1990E 02	07245-01	-,23y4E-02	.6786E-09	.5732E-10	. 2124E=U1	-,2104E-11	.1301E-01

SPECTRUM AVERAGE CHLSS SECTION = .2124E-01

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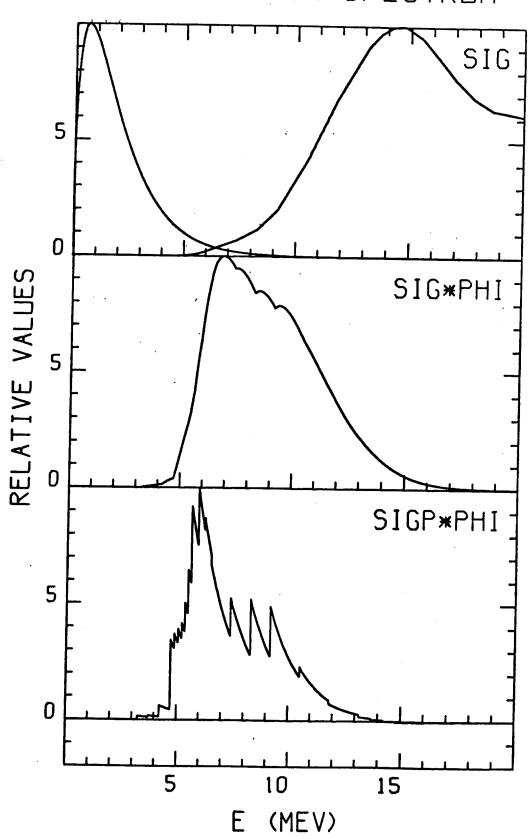
Ε.	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.1170E	02 ,5736E-0	4 .4097E-U2	.3468E=06	.1989E-10	.1496E-09	.1421E-08	04.405.47
,1180E	02 ,4671E-U	3 .4u97E-62	.3227E-U6	.1507E-09	8906E-08	.1322E-08	.2142E=07
.1190E	02 .d768E=0:	3 .4097E-02	.3003E=06	.2633E-09	2981E-07		.1584E=06
.1200E	02 ,1286E-U		E-06ز279	.3595E-09	.6113E-07	.1230E-08	.2663E=06
.1210E	02 .1696E-U	2 .4097E-02	.26UUE-06	.4411E-09	·1013E-06	.1065E-08	4046E-06
.1220E	02 ,2106E-02	4097E-02	.2420E-06	.5096E-09	.14 90E = 06	9914E=09	.5151E-06
,1230E	02 , 2516E=0	4697E=02	.2251E-06	.5664E-09	.2929E-06	9225E-09	.6178E=06
	02 ,2925E-02	40975-02	.2095E-U6	.6128E-09	.2620E=06	8583E-09	.7135E-06
.1250E	02 ,333>E-U2	2 .4097E=02	.1949E-06	.6500E-09	.3252E-06	.7986E-09	.8024E=06
	DZ .3745E-02	4097E-02	.1813E-06	.0791E-09	.3917E = 06	.7430E=09	.8852E+05
	02 ,4162E-02	4529E-02	.163/E-06	.7021E-09	.4608E=06	.7641E=09	.9622E=06
.1280E (02 ,4615E-U2	4529E-02	.157JE-06	.7243E-09	.5322E=06	.7108E-09	.1035E=65
	D2 .5066E-02	4529E-02	.1460E-06	7399E-09	.6055E=06	.6613E=n9	.1109E-05
.1300E (02 ,5520£+02		.1350E-06	.7499E-09	.6900E-06	.6152E-09	.1177E=U5
	32 .5973 _E =02	4529E-02	.1264E-06	.7548E-09	1753E=06	.5723E=09	.1241E+05
)2 ,6426E=U2		.1175E-06	.7553E-09	.8308E-06	.5323E-09	.1356E-05
	02 . 6579E=02	4529E-02	.1093E-06	.7521E-09	9062E-36	4952E=û9	.1407E=05
)2 .7332E=u2		.1017E-J6	.7457E-09	.9811E-06	4606E-09	.1455E=05
.1350E 0			.9459E-07	.7364E-09	1U55F-05	4284E-09	1499E-05
.1360E 0	. ,		.8796E-07	.7248E-09	,1128E-05	3985E-09	15416-05
	12 .d696E=U2		.81&3E-07	.7117E-09	.1200E-05	3948E-09	1579E-05
7 4 1 1 7	2 .9179E-02		.7611E-07	.6986E-09	1271E-05	3672E-09	.1613E=U5
	2 .9661E-02		.7078E-07	.6839E-09	.1340E-05	3415E-09	.1653E-05
	2 .10146-01	.4825E-02	.6583E-07	.6678E=09	1407E-05	3176E-09	.1686E-05
.1410E 0	,	.4825E-02	.6122E-07	.6506E-09	1473E-05	.2954E-09	.1716E-05
.1420E 0	- ,	.4625E-02	.56 93E-07	.6325E-09	.1537E-05	2747E-09	1745E-05
.1430E 0	_ ,	,4818E+u2	,5294E-J7	.6137E-09	1600E-05	.2551E-09	.1771E-05
1440E 0	- ,	.4018E-02	.4923E=07	.5944E-09	.1660E-05	.2372E=09	1796E-U5
1450E 0		.4818E-J2	.4578E-07	.5748E-09	17195-05	.2206E-09	.1819E-05
.1460E 0	- ,	.4016E-02	.42>7E-07	.5550E-09	.1775E-05	.2051E-09	1840E-05
.1470E 0		.4616E-02	.3959E-07	.5351E-09	.1830€-05	1907E-09	.1860E-05
1480E 0		.5773E-02	.3661E=67	•5153E-09	.1882E-05	.2125E-U9	.1873E-05
.1490E 0	_ ,_ ,_ ,_ ,_	.5773E-62	.3422E-07	.4989E-09	·1933E-05	.1976E-J9	.1899E-05
		5773E-u2	.3162E-07	.4822E-09	.1982E-05	.1837E-09	.1918E-05
.1510E 0		,5773E-02	.2959E-07	.4655E-09	.2029E-05	.1708E-09	.1936E-05
.1530E 0		.5773E-02	.2751E-07	.4486E-09	.2075E-05	.1588E-09	.1952E-05
.1540E 0		.5773E-02	.2553E-07	.4319E-09	.2119E-05	,1477E-09	.1967E-05
1550E 0	_ ,	.1256E-01	.237oE-07	4153E-09	.2161E-05	.2986E-09	.1982E-05
.1>60E 0		,1256E=C1	.2211E-07	.4138E-09	.2203E=05	,2776E-09	.2011E-05
.1570E 0	_ ,	.1256E-01	.2055E-67	.4105E-09	.2244E-05	,2581E-09	.2037E-05
.1580E 0		.1256E-01	.1911E-07	.4056E-09	.2285E-05	.2400E-09	.2962E-05
.1590E 0		.1256E-01	.1776E-07	.3994E-09	.23255-05	.2231E-09	.2085E-05
.1600E 0	. ,	.1256E-01	.1651E-07	.3920E-09	.2365E-05	.2074E-09	.2107E-05
.1610E 0	_ , _ ,	.2401E-61	.1535E-07	.3837E-09	.2403E-05	.3685E-09	.2127E-05
.1620E 02		.2402E-01	.1427E-07	.391UE-09	.2442E-05	.3427E-39	.2163E-05
.1630E 02	. ,	.2402E-01	.1326E-07	.3953E-09	.24825-05	.3185E-09	.2196E-05
.1640E 0		.2402E-01	.1233E-07	.3970E-09	.2521E-05	.2961E-J9	.2226E-05
1650E 02		.2402E-01	.1146E=07	.3966E-09	.2561E-05	.2752E-09	.2255E-05
.1660E 0	. ,	.2402E=01	.1065E=07	.3942E-09	.2600E-05	.2558E-09	.2261E=05
.52	103475401	127025701	.9900E-08	.3902E-09	,2640E=05	,2378E-09	.2306E-05

11-48(N.N-P)SC-47 U-235 FISSIZN SPECTRUM

Ė	SIG	SIGP	PHI	SIG*PHI	F	SIGPOPHI	G
.1670E 02	.42U3E-01	.2829E-01	.9202E-08	.3867E-09	.2678E-05	,2603E-09	.2331E-05
1680E 02	4486E-01	.2829E-01	8553E=08	.3836E-09	.2717E-05	.2420E-39	.2355E-0>
.1690E 02	4768E-U1	.2629E-01	.7949E-08	.3791E-09	.27555-05	,2249E=09	.2379E=U5
1700E 02	50515-01	2629E=01	.7300E-08	.3732E-09	.2793E=05	.2090E-09	.2401E-05
.1710E 02	5334=-01	.2829E-01	.6667E=08	.3663E-09	.2830E-05	,1943E-09	.2421E-U5
.1720E 02	.5617E-01	,2829E-01	.6302E-08	.3585E-09	.2566E-05	.1805E-09	,244JE-05
.1730E 02	590UE-01	.2138E-61	5931E-UE	.3499E-09	.2901E-05	.1263E-09	.2457E-05
.1740E 02	61146-01	.2138E-01	.5512E-08	.3370E-09	.2936E-05	.1173E=39	.247JE-05
1750E 02	,6328E=U1	,2130E-01	.5123E-05	.3241E-09	.2969E-05	,10955-09	.2481E-J5
.1760E 02	.6541E-01	2138E-01	4761E-08	,3114E-09	.3001E-05	,1013E-09	.2491E-U5
1770E 02	6755E-U1	.2136E-01	4424E-UB	.2989E-09	.3031E-05	.9458E-10	.2501E-05
.1780E 02	6967E-01	.2138E-01	.4111E-08	.2865E-09	.3060E=05	.8789E-10	.251UE-05
.1790E 02	7183E-U1	.2136E-01	.3821E-08	.2744E-09	.30985-05	.81675-10	.2519E-U5
.1800E 02	.7396E-U1	2138E-01	.3550E-08	.2626E-09	.3115E-05	,7590E-10	.2527E-U5
.1810E 02	.7010E-01	.2138E-01	.32 99E-08	.2511E-09	.3141E-U5	.7053E-10	.2534E-05
,1820E 02	.7624E-01	.2138E=01	.3066E-08	.2399E-09	.3165E - 05	,6554E-10	.2541E-05
1830E 02	8038E-01	.2138E-01	.2849E-06	.2290E-09	.3189E=U5	.6090E-10	.2547E-05
.1840E 02	8251E-01	,1045E-01	.2647E=08	,2184E-09	.3211E-05	,2766E→10	.2553E-05
.1850E 02	83562-01	.1044E-01	.2469E=08	.2055E-09	,3232E=05	.2568E-10	2556E-15
.1860E 02	8460E-01	.1044E-01	.2266E-J8	.1934E-09	.32 52 E-05	,2386E-10	.2558E-05
1870E 02	6565E-01	.1044E-U1	.2124E-08	.1819E-U9	.3271E-05	.2217E-10	.2560E-05
.1880E 02	8669E-01	.1044E-01	,1973E-06	.1711E-09	.3289E-05	.2060E-10	.2563E-05
1890E 02	8774E-01	.1044E-01	.1833E-0a	.1609E-09	.3305F⇒05	.1914E-10	.2505E-05
.1900E 02	.8878E-01	.1044E-01	.1703E-98	.1512E-09	.3321E-05	.1779E-10	.2566E-15
1910E 02	89825-01	.1044E-01	.1583E-08	.1422E-09	,33365-05	.1653E-10	,2563E-U5
.1920E 02	908/E-01	.1044E-01	.1471E=08	.1336E-09	33495-15	.1535E-10	.25705-15
.1930E 02	9191E-01	.1044E-01	.1366E-06	.1256E-09	,3362E - 05	.1426E-10	.2571E-05
.1940E 02	9296E-01	.1044E-01	.1269E-08	.1180E-09	.3374E-05	.1325E-10	.2573E-U3
.1950E 02	9400E-01	.8002E-02	.11/9E-08	.1109E-09	.3386E-05	.9437E-11	.2574E-05
.1960E 02	9480E-01	.80u0E-J2	.1096E-08	.1039E-09	.3397E-05	.8765E-11	.2575E-05
1970E 02	9560E-U1	.8000E-02	.1018E-08	.9731E-10	.3407E=95	.8143E-11	.2576E-05
1980E 02	9640E-01	.8000E-02	.9457E-09	.9116E-10	.3416E-05	,7565E-11	.2576E-05
1490E 02	9720E-01	.6U00E-02	.8766E=09	.8540E-1C	.3425E-05	.7028E-11	.2577E-U5

SPECTRUM AVERAGE CRUSS SECTION = .3433E-05

TI-48(N,P)SC-48 U-235 FISSION SPECTRUM



ε .	SIG	SIGP	PHI	SIG*PHI	F	SIGP+PHI	G
.3300E 01	.1898E-06	.6327E-05	.1104E-03	.2095E-10	.3267E=09	,6983E-09	.2185E-07
.3400E 01	d224E=06	.6327E-05	.1038E-03	8539E-10	.5744F-C8	.6569E-09	8957E-J7
.3500E 01	1455E-05	.6327E-u5	.9762E=04	.1420E-09	.1721E-07	.6176E-09	.1533E-06
.3600E 01	2088E-05	.6327E-05	9175E-C4	.1915E-09	3397E-07	5804E-09	.2131E-06
.3700E 01	.272UE-05	,6327E-05	.6619E-04	.2345E-09	.5534E-07	.5453E-09	.2694E-06
.3800E 01	.3500E-05	.1000E-04	.8095E-04	.2833E-09	.8095E-07	.8095E-09	.3346E-06
.3900E 01	.4500E-05	.1000E-04	.7599E-04	.3420E-09	.11232-06	,7599E-09	4130E-06
.4000E 01	,>500E - 05	.1000E-04	.7132E=u4	.3923E-09	.1491E-06	.7132E-09	4866E-J6
.41U0E 01	.6500E=05	.1000E-04	.6691E-C4	.4349E-09	•1906E=06	,6691E-09	.5557E-06
.4200E 01	.7500E-05	.1000E-04	.6276E-04	.4707E-09	.2359E-06	.6276E-09	.6205E-J6
.4300E 01	,1u35E-04	,4694E-04	.5604E-04	.6089E-09	,2473E-06	.2762E-08	.7939E-U6
.4400E 01	,1504E-04	.4694E-04	,5516E-04	.6297E-09	.3596E-06	.2589E-08	.1061E-05
.4500E 01	.1973E=04	.4694E-04	.5169E-04	.1020E-08	4524E-06	.2426E-08	.1312E-05
.4600E 01	,2443E=04	.4694E-04	.4643E=04	.1183E-08	.56292-06	.2273E-08	.1547E-#5
.4700E 01	,29126-04	4694E-04	4537E-04	.1321E-08	•5884E=06	.2129E-08	.1767E=05
.4800E 01	,5227E=04 ,8772E=04	.3545E-03	,4249E=04	.2221E-08	.6508E-06	.1506E-07	.2766E-U5
.4900E 01		,3545E-03	.3973E=04	.3489E-08	.1138E-05	.1410E-07	.4243E-05
5100E 01	.1300E-03	4250E-03	.3724E=04	.484CE = 08	1357E-05	.1582E =07	.5872E-U5
.5200E 01	.1750E-03	.5001E-03	.3485E-04 .3261E-04	.6098E-08	.2103E-05	.1743E-07	.7493E-05
.5300E 01	.2815E-03	.5931E-03	.3051E+04	.7337E-08	.27778 - 05	.1631E-07	.9179E-05
.5400E 01	.3473E-U3	.7672E-03	.2854E-04	.9911E=08	.4494E-05	.2246E=07	.1096E=04 .1290E=64
5500E 01	4260E-03	.7872E-03	.2659E-04	.1137E-07	5560E-05	.2101E-07	.1508E=04
5600E 01	5357E-03	110 8E -02	24 96E-04	.1337E-07	.6900E-05	2764E=07	.17 91E=04
5700E 01	.6837E-03	.1729E-02	.2333E=04	.1595E-07	.8252E-05	4034E-07	2149E=94
.5800E 01	8566E-03	1729E-02	.2161E-04	.1868E-07	9989E-05	3771E-07	2539E+04
.5900E 01	.1030E-02	.1729E-02	.2036E-04	.2099E-07	.1198E-04	.3525E-07	2903E=04
.6000E 01	.1238E-U2	.2294E-02	.1905E-04	.2359E-07	.1420E-C4	.4371E-07	.3315E-U4
.61UOE 01	.1468E-02	,2294E-02	.1780E-04	.2612E-07	.1669E-04	.4084E-97	.3737E=04
.6200E 01	16 97E - 02	.2294E-U2	.1663E-04	.2822E-07	.1941E-04	.3815E-07	.4132E-04
.63UOE 01	.1937E-02	.2449E-02	.1553E-04	.3009E-07	.2233E≈04	,3804E-07	.4517E-U4
.6400E 01	.2182E-02	.2449E-02	.1451E-04	.3165E-07	,2542E-04	.3553E-07	.4685E-04
.6500E 01	.2427E-02	,2449E-02	,1355E-04	.3288E-07	.2865E-04	,3319E-07	.5228E-04
.6600E 01	,2662E=02	.2308E-02	.1265E-04	.3367E-07	,3196E-04	.2920E-07	.5536E-04
.6700E 01	.2892E=02	,2308E=02	.1161E-04	.3417E-07	35377=04	.2726E-07	.5818E-04
.6800E 01	,3123E-02	.2308E-02	.1103E=04	.3444E-07	.3581E=04	.2545E-67	.6081E-24
.7000E 01	.3354E-02	,2308E-02 ,2308E+02	.1029E=04	.3453E÷07	.4226E=64	,2376E-07	.6327E=04
7100E 01	.3815E-02	.2308E-02	.8968E-05	.3444E=07	4571E=04	,2217E-07	.6556E=04
.7200E 01	.4046E-U2	.2308E=U2	.8369E=05	.3386E-07	.4914E=04	.2069E-97	.6771E=C4
.7300E 01	4277E-02	.2308E-02	7809E-05	.3340E=07	.5591E=04	.1931E-07	.6970E-04
.7400E 01	45086-02	.2300E-02	.7286E-U5	.3284E-07	.59225-04	.1681E=67	.7331E=04
7500E 01	4821E-02	.3336E-02	.6797E-05	.3277E-07	.625UE-84	.2267E+07	.7552E=04
7600E 01	.5154E-02	.3336E-02	6341E-05	.3268E-07	.6577E → 04	,2115E-07	.7771E=U4
.77UOE 01	5488E-02	.3336E-02	5914E-05	.3246E-07	.6903E-04	.1973E-67	.7975E-C4
.7800E 01	5821E-02	.3336E-02	5516E-05	3211E-07	.7226E-04	.1840E-07	.8165E=Ú4
.7900E 01	.6155E-02	.3336E-02	.5144E-05	.3166E-07	75456-04	.1716E-07	8343E-04
.8000E G1	.6489E-U2	.3336E-02	4797E-05	.3113E-07	7859E-04	.1600E-07	8509E-04
.8100E 01	.6822E-02	.3336E-02	.4473E-U5	.3052E-07	.8167E-04	.1492E-07	.8663E-04
.8200E 01	.7156E=U2	,3336E-02	.4171E-U5	.2985E-07	.8469E-04	,1391E-07	.8807E-04

٤.	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.8300E 01	.7489E=02	.3336E-02	.3688E-05	•2912E-07	07645 04	40075 47	
.04U0E 01	8077E=02		3625E-05	.2928E-07	.8764E=04	1297E-07	.6942E-ú4
.8>00E 01		.6154E-02	.3379E-05	.2937E-07		.2231E-07	.9163E-04
.06U0E 01	9307E-02	.6154E-02	.315UE-05	.2932E-07		.2080E-07	.9373E-04
. d700E 01		.6154E-02	.2936E-U5	.2913E-07	.9642E=04	,1936E-07	.9579E=04
.88U0E 01	. 1054E-U1	6154E-02	.2736E-05	.2883E-07		.1807E-07	.9766E-04
. 4900E 03		.6154E-02	.2550E-05	.2844E-07	.1022E=03	.1684E-07	.9940E-04
.9000E 01	11776-61	.6154E-02	.2376E-05	.2797E-07	.1051E-03	.1569E-07	.1010E-03
.9100E 01		.6154E-02	.2214E-05	.2742E-07	.11079E=03	.1462E-07	.1025E-03
.92U0E 01		.1086E-01	.2063E-05	.2682E-07		,1363E-07	.1040E-03
.9300E 01		.1086E-01	1922E-05	.2708E-07	•1134E=03	.2241E-07	.1053E-03
.9400E 01		.1086E-01	.1791E-05	.2717E-07	.1161E-03	.2088E-07	.1074E-u3
.9500E 01		.1066E-01	.1668E-05	.2713E-07	-1188E-03	1945E-07	.1095E-03
.9600E 01		.10:6E-01	.1554E-05	.2696E-07	,1215E-03	.1812E-07	.1113E-C3
.9700E 01		.1060E-01	.1446E=05		.1242E-03	,1688E-07	.1131E-03
.9800E 01		.1086E-01	.1346E-05	.2668E-07	.1269E-03	.1573E-07	.1147E-63
.9900E 01	20605-01	1036E-01	.1256E-05	.2632E-07	.1296E-03	.1465E-07	.1162E-03
.1000E 02	2169E-01	.1036E-01	.1170E-05	.2588E-07	.1322E=03	.1364E-07	.1176E-Ç3
.1010E 02	.22/8E-01	.1086E-01	.1089E-05	.2537E-07	.1347E-03	.1271E-07	.1190E-03
.1020E 02	.2386E-01	.1086E-01		.2481E-07	1373E-03	.1183E-07	.1202E-03
.1030E 02	2495t-01	.1086E-01	.1014E-05	.2421E-07	.1397E-03	.1102E-07	.1213E-03
.1040E 02	2604E-01	.1056E=01		+2357E = 07	.1421E-03	.1026E-07	.1224E=03
1050E 02	2712E-01	.1086E-01	.8797E=06	.2290E-07	.1444E-03	.9556E-08	.1234E-03
.1060E 02	.2537E-01	.1325E-01	.8191E-06	.2222E-07	.1467E-03	.8898E-08	.1243E-U3
.1070E 02	.2969E=U1		7627E-06	.2164E-07	.1489E-03	.1010E-07	.1253E=03
1080E 02	.3102E-01	.1325E-01	.71 U1E-06	·2108E-07	.1510E-03	.9406E-08	.1263E-03
.1090E 02	.3234E-U1	•	.6611E=06	.2051E-07	1531E-03	.8757E-08	.1272E-03
.1100E 02	.3367E=01	1325E-01	.6154E-06	.1990E-07	1551E-03	.8152E-08	.12e0E-03
.1110E 02	.3499E=U1	.1325E-01	•5729E-06	.1929E-07	•1571E-03	.7589E-08	.1288E-03
.1120E 02	3632E-01	1325E-01	.5333E-06	.1866E-07	.1590E-03	.7065E-08	.1295E-U3
1130E 02		,1325E-01	.4965E=06	.1803E-07	.1608E-03	.6576E-n8	.1302E-03
.1140E 02	3764E=61	.1325E-01	.4621E-06	•1739E-07	.1626E-03	.6121E-08	.1309E-03
.1150E 02	3897E=01	.1325E-01	.4301E-06	•1676E-07	.1643E-03	,5698E-08	.1314E-03
	.4029E=01	.1325E-01	.4003E-06	.1613E-07	.1659E-03	,5303E-08	.1320E-03
	,4162E=01	,1325E-01	.3726E-06	.1551E-07	.1675E-03	.4935E-08	.1325E+03
	,4294E=01	,1325E-01	.3466E-06	1489E-07	,1690E-03	.4593E-08	.1330E-03
.1180E 02	.4426E-01	.1325E-01	.3227E-06	.1428E-07	•1705E-03	.4275E-08	.1334E-03
	.4552E-01	•1114E-01	.3003E-06	•1367E-07	.1719E-03	.3345E-08	.1338E-U3
.1200E 02	,4563E-01	,1114E-01	.2795E-06	.1303E-07	.1732E-03	,3113E-06	.1341E-03
.1210E 02	4775E-U1	.1114E-01	.2600E-06	•1242E-07	.1745E=03	.2897E-08	.1344E-03
.1220E 02	.4886E-01	.1114E-01	.242UE-U6	.1182E-07	.1757E-03	.2695E-08	.1347E-03
.1230E 02	.4998E-01	.1114E-01	.2251E-06	.1125E-07	.1768E-03	,2508E-08	.1350E-03
.1240E 02	.5109E-01	,1114E-01	.2095E=06	.1070E-07	.1779E-03	.2333E-C8	.1352E-03
•1250E 02	.5220E-U1	•1114E-01	.1949E-06	•1017E-07	.1790E=03	.2171E-08	.1354E-03
.1200E 02	.5332E-U1	,1114E-01	.1813E-06	.9669E-0a	,1600E-03	.2020E-C8	.1357E-03
.1270E 02	,5443E-01	•1114E-01	.1687E-06	.9183E-08	.1809E-03	.1879E-06	.1358E-03
.1280E 02	.5554E-01	1114E-01	.1576E-06	.d718E-08	.1818E-03	.1748E-08	.1360E-03
.1290E 02	.5666E-01	1114E-01	.146uE-06	.8273E-08	.1827E-03	.1626E-08	.1362E-03
.1300E 02	.5777E-01	,1114E-01	.1358E-06	.7848E-08	.1835E-03	.1513E-CE	.1364E-03
.1310E 02	.>d89E-01	.1114E-01	.1264E-06	.7441E-08	.1842E-03	.1407E-08	.1365E-63
.1320E 02	.6000E-61	,7159E-U2	•1175E-06	.7053E-08	.1850E-03	.8415E-09	.1366E-03

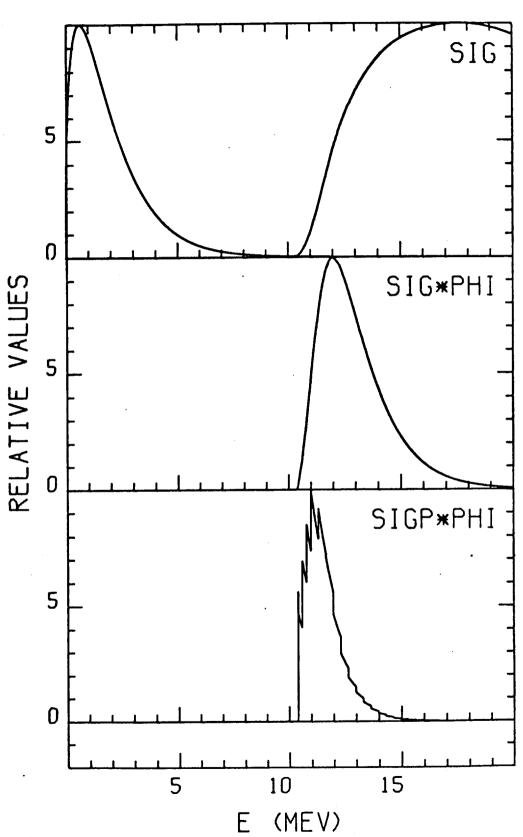
É	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.1530E 02	.6072E-01	.7158E-02	.1093E-06	.6638E-08	.1856E-03	.7826E-09	.1367E-03
.1340E 02	6143E-01	7158E-02	.1017E-06	.6248E-08	.1863E-03	7279E-09	.1363E-03
.1350E 02	.6215E-01	.7158E-02	.9459E-07	.5879E-08	.1869E-03	.6771E-09	.1369E-03
,1360E 02	.6286E-01	7158E-02	. 87 98E-07	.5531E-08	.1875E-03	,6298E-09	.1369E-03
.1370E 02	6358E-01	,7158E-02	.8103E-07	.5203E-08	.1880E-03	,5857E-09	.1370E-03
•1380E 02	.64UBE-U1	.3933E - 32	.7611E-07	.4877E-08	.1885E-03	.2993E-09	.1370E-03
.1390E 02	.5447E-01	,3933⊨⇒02	.7078E-07	.4564E-08	.1490E-03	,2784E-09	.1371E-03
.1400E 02	,6486E-U1	.3933E-02	,6583E - 07	.4270E-08	.1894E=03	,2589E-09	.1371E-U3
.1410E 02	.6526E-G1	,3933E-U2	.6122E-07	.3995E-08	•1898E-03	,2408E-09	.1371E+03
.1420E 02	.6565E-01	.3933E-02	.5693E-07	.3738E-08	.1902E + 03	.2239E-09	.1371E-03
.1430E 02	.6592E-01	.1595E-03	.5294E-07	.3490E-08	1906E-03	.8443E=11	.1371E-03
.1440E 02	,6594E=01	.1595E-03	.4923E=07	.3246E-08	.1909E-03	.7852E-11	.1371E=03
.14506 02	.6595c-01	,1595E-03	.4578E-07	.3019E-08	.1912E-03	.7301E-11	.1371E-03
.1460E 02	.6597E-01	,1595E-03	.4257E-07	.2808E-08	.1915E-03	.6789E-11	.1371E-03
.1470E 02	.6598E=01	1595E-03	.3959E-07	.2612E-09	.1918E-03	.6313E-11	.1371E=03
.1480E 02	•	-,4453E-02	.3681E-07	.2429E+08		-,1639E=09	.1371E=03
.1490E 02	•	-,4456E-02	.3422E-07	.2244E=08		-,1525E-09	.1371E-03
.1500E 02	•	-,4456E-02 -,4456E-02	.3182E+07 .2959E+07	.2072E-08		-,1418E-09 -,1318E-09	.1371E-03
.1520E 02	•	-,4456E-02	.2751E-07	.1767E-03		-,1226E-09	.1371E=03
.1530E 02		4456E-02	.25585-07	.1631E-08		1140E-09	.1371E=03
.1540E 02		4456E-02	.23786-07	.1506E-08		1059E-09	.1371E=03
.1550E 02		4456E-02	.2211E-07	.1390E-08		-,9850E-10	.1371E-03
.1560E 02	•	7714E-02	.2055E-07	.1279E-08		1585E-09	.1370E-03
.1570E 02	•	7/14E-02	.19115-07	.1174E-08		1474E-09	1370E-03
.1580E 02		7714E-02	.1776E-07	.1078E-08		1370E-09	.1370E-03
.1590E 02	•	-,7714E-02	.1651E-07	.989UE-09		1274E-09	.1370E-U3
.1600E 02		7/14E-02	.1535E-07	.9075E-09		-,1184E-09	.1370E=03
.1610E U2	.5d36E-U1	-,7714E-02	.1427E-07	.8326E-09	.1940E-03	1101E-09	.1370E-03
.1620E 02	,5759E-01	-,7714E-02	.1326E-07	.7638E-09	.1941E-03	1023E-09	.1370E-03
.1630E 02	.5650E - 01	-,8284E-02	.1233E-07	.7002E-09	.1941E-03	-,1021E-09	.1370E=03
.1640E 02	•	8284E-02	.1146E-07	.6414E-09		-,9492E-10	.1369E=U3
.1650E 02		-,8234E-02	.1065E-07	.5873E-09		-,8823E-10	.1369E-03
.1660E 02	•	-,8284E-02	.9900E-08	.5377E-09		8201E-10	.1369E-03
.1670E 02		-,8264E-02	.92026-08	4922E-09		7623E-10	.1369E-03
.1680E 02	•	-,8284E-U2	.8553E=08	.4504E-09		-,7085E-10	.1369E=03
.1690E 02		8284E-02	.7949E=08	.4120E=09		-,6585E-10	.1369E=03
.1700E 02		6443E-02 6442E-02	.7385E≈05	.3768E-09	-	-,4760E-10	.1369E=03
1/20E 02	• • • • •	6442E-02	.6867E-08 .63⊎2E-08	.3458E-09 .3173E-09		-,4423E-10 -,4111E-10	.1369E=03
.1730E 02	•	-,6442E-U2	.5931E+08	.2910E-09		-,3821E-10	.1369E=03
.1740E 02		-,6442E-02	.5512E-05	.2669E=09		3551E-10	.1369E-03
1750E 02	•	6442E-02	.5123E-08	.2448E-09		-,3300E-10	1369E+03
.1760E 02	•	-,6442E-02	.4761E=U8	.2244E-09		-,3067E-10	1369E-03
.1770E 02	•	-,6442E-02	4424E-08	.2057E-09		-,2850E-10	.1367E-03
.1/80E 02	.4585c-01	-,6442E-02	4111E-03	.1885E-09		-,2648E-10	1369E-03
.1790E 02		-,3496E-02	.3821E-08	.1733E-09		-,1527E-10	.1369E-03
.1800E 02	.4497t-01	39y6E-02	.3550E-08	.1596E-09	.1948E-03	-,1419E-10	.1369E=03
.1810E 02	•	-,3996E-02	.3299E-J8	.1470E-09	.1948E-03	-,1318E-10	.1369E-J3
.1820E 02	4417E-01	3796E-02	,3066E≈08	.1354E-09	.1948E-03	-,1225E-10	.1369E-03

TI=48(N.P)SC=48 U=235 FISSION SPECTRUM

t ,	SIG	SIGP	PHI	SIGOPHI	F	SIGP*PHI	G
.1830E 02 .1840E 02 .1850E 02 .1850E 02 .1870E 02 .1870E 02 .1870E 02 .1910E 02 .1910E 02 .1930E 02 .1930E 02 .1950E 02	.4377ē-01 .4337ē-01 .4297c-01 .4297c-01 .4256E-01 .4213E-01 .4200E-01 .418bE-01 .4175E-01 .4149E-01 .4137ē-01	-,3996E-02 -,3996E-02 -,3996E-02 -,1276E-02 -,1276E-02 -,1276E-02 -,1276E-02 -,1276E-02 -,1276E-02 -,1276E-02 -,1276E-02 -,1276E-02 -,1276E-02	.2849E-08 .2647E-08 .2460E-08 .2206E-08 .2124E-08 .1973E-08 .1703E-08 .1533E-08 .1471E-08 .1366E-08 .129E-08	1247E-09 1148E-09 1148E-09 1057E-09 9729E-10 8974E-10 7701E-10 7733E-10 6608E-10 66120E-10 52659E-10 4863E-10 4863E-10	.1948E-03 .1948E-03 .1948E-03 .1948E-03 .1949E-03 .1949E-03 .1949E-03 .1949E-03 .1949E-03 .1949E-03	1138E-10 1058E-10 9830E-11 9134E-11 2710E-11 2518E-11 2340E-11 2020E-11 1876E-11 1876E-11 1620E-11 1505E-11	G .1369E-03 .1369E-03 .1369E-03 .1369E-03 .1369E-03 .1369E-03 .1369E-03 .1369E-03 .1369E-03
.1970E 02 .1980E 02 .1990E 02	.4098E-01	1276E-02 1276E-02 1276E-02	.1016E-08 .9457E-09 .8786E-09	.4172E-10 .3864E-10 .3578E-10	.1949E-03	-,13985-11 -,12996-11 -,12076-11	.1369E-03 .1369E-03 .1369E-03

SPECTRUM AVERAGE CROSS SECTION = .1949E-03



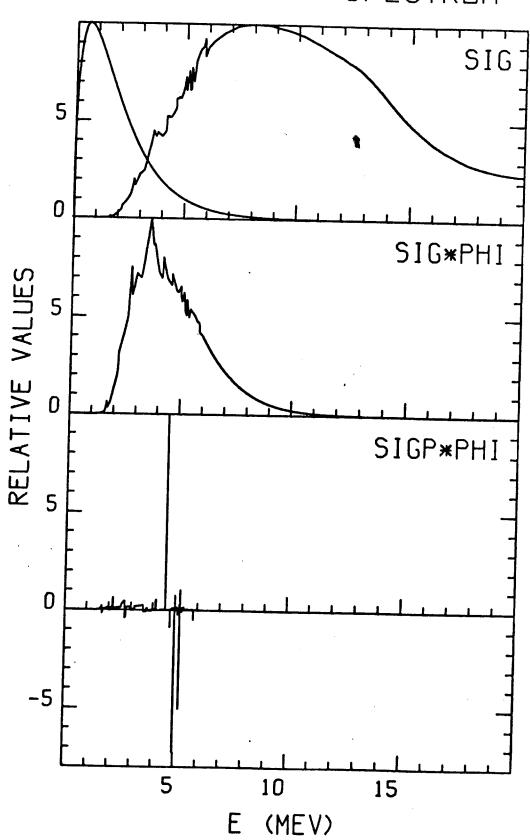


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424.44		• • • •	SIG*PHI	F	SIGP*PH	I G
.1050E 02 .7765E-	02 .89U5E-U1	8101504				• •
.1060E 02 ,1667E-	01 .6905E-01		100015-0		6 .7294E-0	7 // 7
10/0E 02 .3137Fm				7 .1251=-		
1080E 02 .4651E-	04	* * = * * = * * *		7 .3003E-0		
.1090E 02 .6766E-			.3074E-0			6 .2453E-04
- 10,000		.6154E-06	4164E-0			6 .34 on E= na
444	00 326 62 · 289	.5729E-06			5 .13135-0.	6 .4842E-04
44000	00 3268° 00	.5333E-06	•5099E-0		4 •1657F=n/	6 .6114E-04
.1120E 02 .1468E		40465-04	.6289E-0		4 .15435-0	- 107745404
.1130E 02 .1758E		.4965E-06	.7290E-07	7 .2648E-n	4 ,1436E-0	
*1140E 02 .2079= 0	10	.4621E-06	.8123E-07	7 .3420F=n.	4 .1337E-0	U -
1150E 02 ,2417E 0	. 100,25 00	.4301E-06	.8943E-07	7 .4273E-0		
1160E 02 2754E 0	1-0.00	.4003E-06	.9675E-07	5205E-0		
		.3725E-06	.1026E-06			.1342F=n3
1000/2		.3468E-06	.1071E-06		,1257E-06	.1472E-03
		.3227E-06			.1145F-nA	
.1190E 02 .3750E 0	0 .3302E 00	.3003E-06	•1103E-06	1-0.55-04	10665-06	12-105-03
•1<00E 02 .4080E U		37005 04	•1126E-06	.9458E=04	.9917E-07	
•1210E 02 .4356F n		.2795E-06	•1140E-06	.1059F-n3	.7721E-07	
•1440E 02 .4633r 01	n 0- 4-	.2600E-06	.1133E-06	•1173E=03		
.1230E 02 .4909E 0		.2420E-06	.1121E-06			•1976E-03
12400 00		.2251E-06	.1105E-06	1397E-03		.2045E-03
12505 00 000		.2095E-06	.1079E-06	150/5-03		.2110E-03
		.1949E-06	.1047E-06	.1506E-03	.4674E-07	.2162E-03
	.2231E 00	1813E-06	10475-06	.1613E-03	,4349E-07	.2207E-03
•1270E 02 .5906E 00	.1846E 00	.1687E-06	1015E-06	1716E-03	+4046E-07	.2249E=03
.1280E 02 .5991E 00	,1846E 00	.1570E-06	.9796E-07	.1815E-03	.3115E-07	22245-02
.1290E 02 .6175E 00		14405 04	.9403E-07	.1911E-03	,2898E-07	.2286E+03
•1300E 02 .6360F nn		.1460E-06	•9017E-07	.2003E-03	.2696E-07	.2316E-03
.1310E 02 .6517E 00	123002 00	.1353E-06	.8639E-07	2092E-03	24700-07	.2344E=03
1320E 02 .6674E 00	.1568E 00	.1264E-06	.8235E-07	·2176E-03	.2130E-07	.2370E-03
43400 00	1568E 00	.1175E-06	.7844E-07	22545 07	.1981E-07	.2390E-03
100000	.1568E 00	.1093E-06	.7468E-07	.2256E-03	•1843E-07	.2409E-03
13600 00	.1322E 00	.1017E-U6	.7089E-07	.2333E-03	,1714E-07	2427E-03
- 1.2000	.1322E 00	.9459E-07	4710C 07	.2406E-03	.1344E-07	.2442E-03
.5 3- 1/6426 00	.1322E 00	.8798E-07	.6719E-07	.2475E-03	.1250E-07	.2455E-03
13/0E 02 ,7360E 00	.1100E 00		.6366E-07	.2540E-03	.1163E-07	.2467E-03
1380E 02 .7470E 00	.1100E 00		.6023E-07	.2602E-03	.9004E-08	
1390E 02 .7580E 00		.7611E-07	•5685E-07	.2661E-03	.8374E-08	.2477E-03
•1400E 02 .7690E 00		.7078E-07	.5365E-07	.2716E-03	.7788E-08	.2486E-03
+1410E 02 .7779E 00		.6583E-07	.5062E-07	.2768E-03	50005 00	.2494E-03
.1420E 02 .7869E 00		.0122E-07	4763E-07	.2817E-03	.5890E-08	.2502E-03
14105 00	.8946E-01	•2693E=07	4480E-07	.5863E-03	,5477E-08	.2507E-03
	.8946E-01	.5294E-07 ,	4214E-07	167035-03	.5093E-08	.2513E-03
	•/174E-01		3956E-07	·2907E-03	.4736E-08	.2518E-03
	•/174E+01 .		37105-07	.2947E-03	.3532E-08	.2522E=03
1460E 02 .5179E 00	•		3712E-07	.2986E-03	3284E-08	.2525E-03
.14/0E 02 .8247E UO			3482E-07	.3022E-03	.3054E-08	25205-07
.1480E 02 .8304E 00			3264E-07	.3055E-03		.2528E-03
.1490E 02 .8362€ UO		3681E-07	3057E-07	.3087E-03		.2531E-03
1500E 02 .842DF 00		3422E-07	2862E-07	.3117E-03		.2533E-03
.1510E 02 .3467E 00	4670E-01	3102E=07 .		.3144E-03	1978E-08	.2535E-03
44.00	4670E-01	<959E-07 .		. 31700. 67	•1486E=08	.2537E-03
_ , , , , , , , , , , ,	+4670E-01			.3170E-03	.1382E-08	.2538E-03
	•4670E-01	DECAR		.3194E-03	.1285E-08	.2540E-03
.1940E 02 ,8601E 00				3217E-03	.1194E-08	2541E-03
	- - •		2045E-07	.3238E-03	99056	2542F-03

5	SIG	SIGP	PHI	SIG*PHI	F	SIGPOPHI	G
.1550E 02	8638E 00	.3737E-01	.2211E-07	.1909E-07	.3258E-03	.8260E-09	.2543E-03
.1960E 02	.3675E 00	.3737E-01	.2055E-07	.1783E-07	.3276E-03	.7679E-09	.2544E-03
.1570€ 02	.8710E 00	.2994E-01	.1911E-07	.1664E-07	.3294E-03	.5720E-09	.2544E-03
.1580E 02	.3740 a 00	.2994E-01	.1776E-07	.1552E-07	.3310E=03	.5318E-09	.2545E-03
.1590E 02	.3770E 00	.2994E-01	,1651E-07	.1448E-07	.3325E-03	.4943E-09	.2545E-03
,1600E 02	.9300E 00	.2026E-01	,1535E-07	,1351E-07	.3339E-03	.3202E-09	,2546E-03
.1610E 02	.8321E 00	.2055E-01	.1427E-07	.1259E - 07	.3352E-03	.2975E-09	.2546E=03
.1620E 02	.8342E 00	,2035E-J1	.1326E-07	.1173E-07	.3364E-03	.2766E-09	.2547E=03
.1630E 02	.8863E 00	.2035E-G1	.1233E-07	.1093E-07	.3375E-03	.2571E-09	.2547E-03
.1640E 02	.3883E 00	.20a5E - 01	.1146E=07	.1018E-07	,3386E-03	,2390E - 09	.2547E-03
.1650E 02	.3904E 00	.20d5E-01	.1065E-ù7	.9484E-08	,3396E-03	.2221E-09	.2547E-03
.1660E 02	.8725E 00	,20s5E-01	.9900€⇒08	.8836E-08	.3405E-03	,2065E-09	.2547E-03
.1670E 02	.8942E 00	.9760E-02	.9202E-08	.8229E-08	.3413E-03	.8981E-10	.2548E-03
.1680E 02	.99525 00	,9760E-02	.8553E-08	.7657E-08	.3421E-03	.8347E-10	.2548E-03
,1690E 02	.89622 00	.9760E - ∪2	.7949E-08	.7124E-08	.3429E-03	.7758E-10	.2548E-03
.1700E 02	.8972E 00	.9760E=02	.7388E-09	.6628E-08	.34358-03	,7211E-10	.2548E-03
.1710E 02	.3981E 00	.9760E-02	,6807€-08	.6167E-08	.3442E-03	.6702E-10	.2548E-U3
.1720E 02	.8991E 00	.9760E-02	.6382E-08	.5738E-08	.3448E-03	.6229E-10	.2548E-03
.1730E 02	.7001E 00	.9760E-02	.5931E-08	.5339E-08	.3453E-03	.5789E-10	2546E-03
1740E 02	9004E 00	-,6147E-03	.5512E-08	.4963E-C8	.3458E-03		.2543E-03
.1750E 02	,9003E 00	-,6147E-03	5123E-08	.4612E-08		-,3149E-11	.2548E-03
1760E U2	.9002E 00	-,6147E-03	4761E-08	.4285E-08		-,2926E-11	.2548E-03
.1770E 02		6147E-03	4424E-08	.3983E-08		2719E-11	.2548E-03
.1780E 02	,9001E 00		.4111E-08	.3701E-08		-,2527E-11	.2548E-G3
.1790E 02	,9001E 00	6147E-03	3821E-08	.3439E-08		-,2348E-11	.2548E-03
.1800E 02		-,1035E-01	3550E-08	,3195E-08		-,3675E-10	.2548E-03
.1810E 02		-,1036E-01	.3299E-08	.2966E-08		3418E-10	.2548E-03
.1820E 02		-,1036E-01	.3066E-08	.2753E-08		-,3176E-10	.2548E-03
.1830E 02		1036E-01	.2849E-08	.2555E-08		-,2951E-10	.2548E=03
.1840E 02		-,1036E-01	.2647E=08	.2371E-08		-,2742E-10	.2548E-03
.1850E 02	•	-,1036E-01	.2450E-08	.2201E-08		-,2548E-10	.2548E+03
.1860E 02	• -	-,1036E-J1	.22868-09	.2043E-08		-,2368E-10	.2548E-63
.1870E 02		2003E-01	.21245-08	.1895E-08		-,4254E-10	.2548E-03
.1880E 02	•	-,2003E-01	.1973E=08	.1757E-08		3952E-10	.2548E-C3
.1890E 02	•	-,2003E-01	.1633E-08	.1629E-08		-,3672E-10	.2546E=03
.1900E 02	.8364E 00		.1703E-08	.1510E-03		-,3412E-10	.2548E-03
.1910E 02		-,2003E-01	.1563E-08	.1400E-08		-,3170E-10	.2546E-J3
.1920E 02		-,2003E-01	.1471E-08	.1298E-08		-,2945E-10	.2548E-03
.1930E 02	.8304E 00	20J3E-01	.1366E=09	1203E-08		-,2737E-10	.2548E=03
.1940E 02	•	-,2961E-01	.1269E-08	.1114E-08		-,3759E-10	.2548E-03
.1950E 02		2961E-01	.1179E=08	1032E-08		-,3492E-10	,2548E=03
.1960E 02		2961E-01	.1096E=08	.9552E-09		-,3244E-10	.2548E=03
.1970E 02		-,2761E-u1	.1018E-08	.8844E-09	,	3014E-10	.2548E=03
.1980E 02		-,2961E-01	.9457E=09	.8189E-09		-,2800E-10	.2548E=03
.1990E 02	*2020F 00	-,2961E-U1	.8786E-09	.7582E-09	. 3717E=03	-,2601E-10	.2547E-U3

SPECTRUM AVERAGE CRESS SECTION = .3516E=03

FE-54(N,P)MN-54 U-235 FISSION SPECTRUM



.2000E 01 .1369E-01 .4918E-01 .2312E-03 .3166E-05 .5905E-03 .1137E-04 .3466E-0 .2100E 01 .196UE-01 .7038E-01 .2196E+03 .4303E-05 .9617E-03 .1545E+04 .4799E-0 .2200E 01 .3296E-01 .4009E 00 .2063E-03 .6865E-05 .1476E-02 .8349E-04 .7702E-0 .2300E 01 .4353E-01 .7607E-01 .1973E-03 .8590E-05 .2282E-02 .1501E-04 .9793E-0 .2400E 01 .5183E-01 .9058E-01 .1608E-03 .9682E-05 .3195E-02 .1692E-04 .1139E-0 .2500E 01 .6172E-01 .1079E 00 .1767E-03 .1090E-04 .4224E-02 .1906E-04 .1319E-0	E	SIG	SIGP	PHI	SIGOPHI	F	SIGP+PHI	G
.1400E 01 .1233E=03 .1293E=02 .3055E=03 .3767E=07 .2330E=05 .3950E=06 .3896E=0 .1500E 01 .3500E=03 .3371E=02 .2930E=03 .1026E=06 .8643E=05 .9879E=06 .1072E=0 .1600E 01 .9128E=03 .8792E=02 .2805E=03 .2560E=06 .2570E=04 .2466E=05 .2695E=0 .1700E 01 .4672E=02 .9414E=01 .2679E=03 .1305E=05 .8609E=04 .2522E=04 .1369E=0 .1800E 01 .4134E=02 .2660E=01 .2554E=03 .1056E=05 .1914E=03 .6794E=05 .1152E=0 .1900E 01 .7050E=02 .4795E=01 .2432E=03 .1099E=05 .3359E=03 .1166E=04 .2061E=0 .2000E 01 .1369E=01 .4918E=01 .2312E=03 .3166E=05 .5905E=03 .1137E=04 .3466E=0 .2100E 01 .1960E=01 .7038E=01 .2196E=03 .4303E=05 .9617E=03 .1545E=04 .4799E=0 .2200E 01 .3296E=01 .409E=00 .2063E=03 .6865E=05 .1476E=02 .8349E=04 .7702E=0 .2300E 01 .4353E=01 .7607E=01 .1573E=03 .8590E=05 .2282E=02 .1501E=04 .9793E=0 .2400E 01 .5183E=01 .9058E=01 .1608E=03 .9682E=05 .3195E=02 .1692E=04 .1139E=0 .2500E 01 .6172E=01 .1079E 00 .1767E=03 .1090E=04 .4224E=02 .1906E=04 .1319E=0	.1300E 01	.2461F=04	.4472E=03	.3177F=03	.7818F-NA	.26205=06	14215-04	86575-05
.1500E 01		• -					•	•
.1600E 01 .9128E=03 .87y2E=02 .2805E=03 .2560E=06 .2570E=04 .2466E=05 .2695E=0 .1700E 01 .4672E=2 .9414E=01 .2679E=03 .1305E=05 .8609E=04 .2522E=04 .1369E=0 .1800E 01 .4134E=02 .2660E=01 .2554E=03 .1056E=05 .1914E=03 .6794E=05 .1152E=0 .1900E 01 .7650E=02 .4795E=01 .2432E=03 .1909E=05 .3359E=03 .1166E=04 .2061E=0 .2000E 01 .1369E=01 .4918E=01 .2312E=03 .3166E=05 .5905E=03 .1137E=04 .3466E=0 .2100E 01 .1960E=01 .7038E=01 .2196E=03 .4303E=05 .9617E=03 .1545E=04 .4799E=0 .2200E 01 .3296E=01 .4009E 00 .2063E=03 .6865E=05 .1476E=02 .8349E=04 .7702E=0 .2300E 01 .4353E=01 .7607E=01 .1973E=03 .8590E=05 .2282E=02 .1501E=04 .9793E=0 .2400E 01 .5183E=01 .9058E=01 .1608E=03 .9682E=05 .3195E=02 .1692E=04 .1139E=0 .2500E 01 .6172E=01 .1079E 00 .1767E=03 .1090E=04 .4224E=02 .1906E=04 .1319E=0	- · ·							•
.1700E 01 .4672E=02 .9414E=01 .2679E=03 .1305E=05 .8609E=04 .2522E=04 .1369E=0 .1800E 01 .4134E=02 .26c0E=01 .2554E=03 .1056E=05 .1914E=03 .6794E=05 .1152E=0 .1900E 01 .7650E=02 .4795E=01 .2432E=03 .1909E=05 .3359E=03 .1166E=04 .2061E=0 .2000E 01 .1369E=01 .4918E=01 .2312E=03 .3166E=05 .5905E=03 .1137E=04 .3466E=0 .2100E 01 .1960E=01 .7038E=01 .2196E=03 .4303E=05 .9617E=03 .1545E=04 .4799E=0 .2200E 01 .3296E=01 .4009E 00 .2063E=03 .6865E=05 .1476E=02 .8349E=04 .7702E=0 .2300E 01 .4353E=01 .7607E=01 .1973E=03 .8590E=05 .2282E=02 .1501E=04 .9793E=0 .2400E 01 .5183E=01 .9058E=01 .1608E=03 .9682E=05 .3195E=02 .1692E=04 .1139E=0 .2500E 01 .6172E=01 .1079E 00 .1767E=03 .1090E=04 .4224E=02 .1906E=04 .1319E=0	-	•						
.1800E 01	1700E 01			•				
.1900E 01 .7850E-02 .4795E-01 .2432E-03 .1909E-05 .3359E-03 .1166E-04 .2061E-0 .2000E 01 .1369E-01 .4918E-01 .2312E-03 .3166E-05 .5905E-03 .1137E-04 .3466E-0 .2100E 01 .1960E-01 .7038E-01 .2196E-03 .4303E-05 .9617E-03 .1545E-04 .4799E-0 .2200E 01 .3296E-01 .4009E 00 .2063E-03 .6865E-05 .1476E-02 .8349E-04 .7702E-0 .2300E 01 .4353E-01 .7607E-01 .1973E-03 .8590E-05 .2282E-02 .1501E-04 .9793E-0 .2400E 01 .5183E-01 .9058E-01 .1608E-03 .9682E-05 .3195E-02 .1692E-04 .1139E-0 .2500E 01 .6172E-01 .1079E 00 .1767E-03 .1090E-04 .4224E-02 .1906E-04 .1319E-0								
.2000E 01 .1369E-01 .4918E-01 .2312E-03 .3166E-05 .5905E-03 .1137E-04 .3466E-0 .2100E 01 .196UE-01 .7038E-01 .2196E-03 .4303E-05 .9617E-03 .1545E-04 .4799E-0 .2200E 01 .3296E-01 .4009E 00 .2063E-03 .6865E-05 .1476E-02 .8349E-04 .7702E-0 .2300E 01 .4353E-01 .7607E-01 .1973E-03 .8590E-05 .2282E-02 .1501E-04 .9793E-0 .2400E 01 .5183E-01 .9058E-01 .1608E-03 .9682E-05 .3195E-02 .1692E-04 .1139E-0 .2500E 01 .6172E-01 .1079E 00 .1767E-03 .1090E-04 .4224E-02 .1906E-04 .1319E-0	.1900E 01	.7850E-02	,4795E-01	.2432E-03	.1909E-05		•	.2061E-02
.2100E 01 ,1960E-01 ,7038E-01 ,2196E-03 ,4303E-05 ,9617E-03 ,1545E-04 ,4799E-0 ,2200E 01 ,3296E-01 ,4009E 00 ,2063E-03 ,6865E-05 ,1476E-02 ,8349E-04 ,7702E-0 ,2300E 01 ,4353E-01 ,7607E-01 ,1973E-03 ,8590E-05 ,2282E-02 ,1501E-04 ,9793E-0 ,2400E 01 ,5183E-01 ,9058E-01 ,1608E-03 ,9682E-05 ,3195E-02 ,1692E-04 ,1139E-0 ,2500E 01 ,6172E-01 ,1079E 00 ,1767E-03 ,1090E-04 ,4224E-02 ,1906E-04 ,1319E-0	.2000E 01	.1369E-01		.2312E-03	.3166E-05			.3466E-02
.2200E 01 ,3296E-01 ,4009E 00 ,2063E-03 .6865E-05 ,1476E-02 ,8349E-04 ,7702E-0 .2300E 01 ,4353E-01 ,7607E-01 .1973E-03 .8590E-05 .2282E-02 ,1501E-04 ,9793E-0 .2400E 01 ,5183E-01 ,9058E-01 .1608E-03 .9682E-05 .3195E-02 ,1692E-04 .1139E-0 .2500E 01 ,6172E-01 ,1079E 00 .1767E-03 .1090E-04 .4224E-02 ,1906E-04 .1319E-0	.2100E 01	,196UE=U1	,7038E-01	.2196E-03	.4303E-05	.9617E-03	,1545E-04	4799E-02
.2400E 01 .5183E-01 .9058E-01 .1608E-03 .9682E-05 .3195E-02 .1692E-04 .1139E-0 .2500E 01 .6172E-01 .1079E 00 .1767E-03 .1090E-04 .4224E-02 .1906E-04 .1319E-0			.4009E 00	.2063E-03	.6865E-05	.1476E-02		.7702E-02
.2500E 01 .6172E-01 .1079E 00 .1767E-03 .1090E-04 .4224E-02 .1906E-04 .1319E-0			•	.1973E-03	.8590E-05	.2282E-02	.1501E-04	.9793E-02
The state of the s						.3195F-02	.1692E-04	.1139E-C1
		•				.4224E-02	,1906E-04	.1319E=01
		75046-01	.2730E 00	.1670E-03	.1253E-04	-5384E=02	.4557E-04	.1549E+01
3400F 64 4646F 66 44F4F 66 4460F 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		•						.2083E-U1
30000 4		*						.1980E-01
		•		•				.2206E-01
		•						.2425E-01
	•							.2506E-01
77000	· · · · · · · ·							.2612E-01
74000 04 000000 000000 000000		•					•	.2894E-01
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40000 04		•			· · ·		•	.3693E-01
AADAC DA GOOGE DO GOOGE DO		-						.3752E-01
470.00 04 70.000 00 4.000	.4200E 01	,30 97E 00	1991E-01	.6276E-04			•	.40 61E - U1
47000 04 10770 00 40500 44 44 44 44 44 44 44 44 44 44 44 44 4	.4300E 01	,3077E 00	1978E-01	.5584E-04	.1810E-04			4069E-01
4400F 04 7670C 06 44.70 40 CC4.8 84 4648 85.	4400E 01	.3078E 00	.1197E 00	.5516E-04	.1698E-04		•	.4070E=01
.4500E 01 ,3200E 00 ,1244E 00 ,5169E-04 ,1654E-04 ,4078E-01 ,6432E-05 ,4136E-0	· · · · · · · · · · · · · · · · · · ·	,3200E 00	.1244E 00	.5169E-04	.1654E-04	.4078E-01		.4136E-01
			• • • • • • • • • • • • • • • • • • • •	.4843E-04	.1750E-04	.4243E-01	.1387E-05	4339E-01
						.4413E-01	.1310E-05	.4352E-01
		-				.45745-01	.7967E-05	.4355E-01
CONAC A. 3000 A							•	.4440E-01
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	· · -	-	• -	· .				.4589E-01
CANAR A		•					_	.4477E-01
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The state of the s				•			_	.465CE-01
			•					.4758E-01
77000 01 11725-02 17725-03		•						4806E=01
2000E 01 1230E-01 1230E-03							•	.4834E=01
F0005 04 50005 00 40545 00 40545 00 40005 00 400	• • • • •							4873E=01
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44005 04 8074 00 7175		•						.4856E=01
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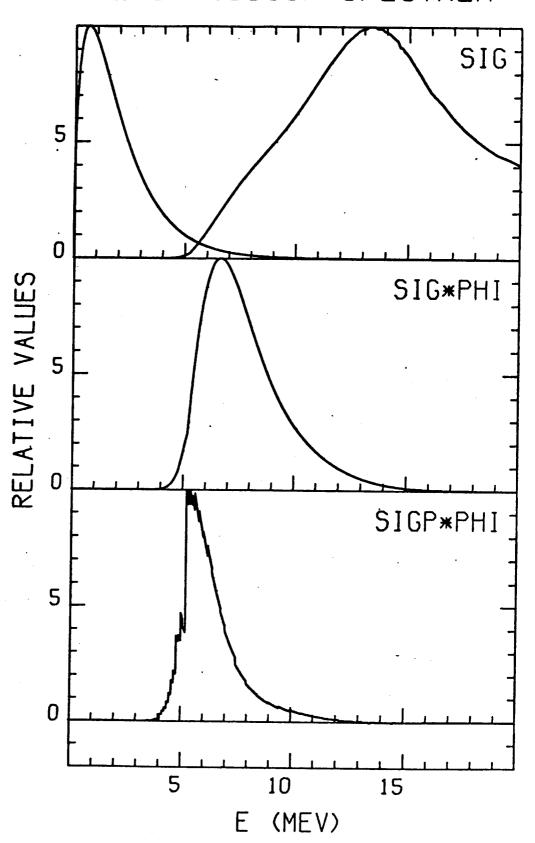
	610	,,,,						
t .	SIG		SIGP	PHI	SIGOPHI	F	SIGP*PHI	G
.6300E 0:					.8400E-05	.6416E-01	.8632E-06	40205-04
.6400E 0:					.7927E-05	.6498E-C1		.4879E=01
.6500E 0:		-						4887E=01
.6600E 01			,		.7049E-05			.4895E=01
.6700E 01					.6643E-05			.4902E-01 .4908E-01
.6800E 01					.6249E-05			.4913E=01
.6900E 01	-				.5866E-05			.4917E-U1
.7000E 01					.5506E-05	.6898E-C1		
.7100E 01	-			.8968E-05	.5171E-05	.6951E-01		.4920E=01
.7200E 01			, , , , , , , , ,	.8364E-05	.4855E-05	.7001E-01	3027E-06	.4926E=01
.7300E 01	•			.7809E-05	.4551E-05	.7048E-01		
.7400E 01	•			.7286E-05	.4258E-05	7092E-01		.4928E-01
•7500E 01	,			,6797E-05	.3983E-05	.7133E-01		
7600E 01				.6341E-05	.3723E-05	71725-01	.7605E-07	.4931E-01
•7700E 01				.5914E-05	.348UE-05	.7208E-01	7108E-07	.4932E=01
.7800E 01	• • •			.5516E-05	.3250E-05	.7241E-01		.4932E=U1
.7900E 01	,5896E		.4001E-02	.5144E-05	.3033E-05	7273E-01	2058E-07	4933E=01
.8000E 01	.5900E		,4366E-u7	.4797E-05	.2830E-05	7302E-01	.2094E-12	.4933E=01
.8100E 01	,5900E	00	.0000E 00	,4473E-05	.2639E-05	.7329E-01	.0000E 00	4933E=01
.8200E 01	590UE	0.0	.0000E 00	.4171E-05	.2461E-05	.7355E-01	.0000E 00	4933E=01
.8300E 01	,5698£	00	4002E-02	.3868E-05	.2293E-05		1556E-07	4933E-01
.8400E 01	.5894E	00	39991-02	.3625E-05	.2137E-05	7401E-01	-,1450E-07	.4933E=U1
.8500E 01	,5890E	00	4003E-02	.3379E-05	.1990E-05	7421E-01	1353E-07	.4933E-01
.8600E 01	.5886E	00	4001E-02	.3150E-05	.1854E-05	.7441E-01	-,1260E-37	.4933E-01
.8700E 01	,5682E	00	-,3998E-02	.2936E-05	.1727E-05	7459F-01	-,1174E-07	4933E-01
.8800E 01	.5870E	00	2005E-01	.2736E-05	.1606E-05	.7475E-01	5486E-07	.4932E-01
.8 90 OE 01	,5650E	00	-,1998E-01	.2550E-05	.1492E-05	.74 01 E = 01	5095E-07	.4932E-01
9000E 01	,5830E	ÚΟ	1606E-01	.2376E-05	.1385E-05	.7505E=01	-,3815E-07	4932E-01
.9100E 01	.5814E	UC	1601E-01	.2214E-05	.1287E-05	.7518E=01	-,3545E-07	.4931E-J1
.9200E 01	.5798E	0 U	-,1597E-01	.2063E-05	.1196E-05	7531E=01	-,3294E-07	4931E=01
.9300E 01	. 57 62E	U O	1603E-01	.1922E-05	.1111E-05	. 75 42E=01	-,3082E-07	.493UE=01
.9400E 01	,5766£	ÜD	-,1599E-01	.1791E-05	.1033E-05	.75535-01	-,2863E-07	.4930E-U1
.9>00E 01	,5750E	00	2009E-01	.1665E-C5	.9593E-06	. 75 A35=01	3351E-07	.4930E-01
.9600E 01	,5730E	00	-,2002E-01	.1554E-05	.8905E-06	.75726-01	3111E-07	.4930E-U1
9700E 01	,5710L	ĆΟ	1995E-01	.1446E-05	.8266E-06	.7581E-01	2888E-07	.4929E-01
.9800E 01	,5688E	ÚΟ	2468E-01	.1346E-05	.7670E-06	.75805-01	3246E-07	.4929E-01
.9900E 01	,5664E	00	2397E-01	.1256E+05	.7114E-06	75.045-04	- 30445 07	.4929E-01
.1000E 02	,5640E	UU	2413E-01	.1170E-05	.6597E-06	76035-01	-,3011E-97	.4923E-01
•1010E 02	,5616E	00	-,2403E-01	1089E-05	.6118E-06	76005-01	2822E-07	.4923E-01
.1020E 02	,5592E	00	-,2392E-01	.1014E-05	.5673E-06	76155-01	2617E-07 2427E-07	.4928E-U1
.1030E 02	,5562E	00	-,3617E-01	.9447E-96	.5254E-06	76215-01	-, < 42/E-U/	.4927E-J1
.1040E 02	.5526E	UO	-,3594E-01	.8797E-06	.4861E-06	.7621E=01	- 341/E-0/	4927E-01
.1050E 02	,54 90 E	00	3630E-01	. 61 91E-06	4497E-06	.7626E-01	-,3102E-0/	.4927E-01
.1060E 02	,5454E	UŪ	3606E-u1	.7627E-06	.4159E-06	7630E-01	- 129/3E=07	.4927E-01
.1070E 02	,5418E	00	-,35d2E-01	.7101E-06	.3847E-06	,7635E-01	-,2/506-77	.4926E-01
.1080E 02	,5384E	U O	3214E-U1	.6611E-06	.3559E-06	.7639E=01	- 12743E-07	.4926E-01
.1090E 02	,5352E	00	3195E-01	6154E-06	.3294E-06	.7642E 31	2125E=07	.4926E-01
.1100E 02	,5320E	00	-,4038E-01	.5729E-06	.3048E-06	.7546E-01	- 11966E-07	.4925E-01
.1110E 02	.5280E	00	-,4007E-01	.5333E-06	.2816E-06	.7649E-01	-,2313E-07	.4925E-01
.1120E 02	.524UE	00	-,3977E-01	.4965E-06	.2601E-06	.7652E-01	-,2137E-07	.4925E-01
		-	V = 77 - W W	1.7076-00	* FOOTE-00	.7655E-01	-,1974E-07	.4925E-01

E	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.1150E 02	.52006	00 -,4023E-01	.4621E-06	24075 04	7/57		
.1140E 02	.516GE	003992E-01	.43C1E-06	.2403E-06	*/65/E=01	-,1859E-07	4925E-01
1150E 02	.5120F	004039E-61	4003E-36	.2219E-06	76475 04	1717E-07	4925E=01
.1160E 02		004008E-01	3726E-06	.1893E-06		1617E-07	.4924E-01
.11/0E 02		003976E-01	.3465E=06	.1748E-06		1493E-07	.4924E-01
.1180E 02		UU3619E-01	.3227E-06	.1614E-06		-,1379E-07	.4924E-U1
.1190E 02		003593E-01	.30u3E-06	.1491E-06		1168E-07	.4924E-01
.1200E 02	_	005269E-01	.2795E-U6	.1378E-06		-,10796-07	.4924E-01
.1210E 02	•	005213E-01	.2600E-06	.1268E-06	76748=01	1472E-07	.4924E-U1
.1220E 02		005158E-01	.2420E-06	•1168E-06		1356E-07	4924E-01
.1250E 02		00 -,4025E-01	.2251E-06	.1076E-06		1248E-07 9062E-08	.4923E-J1
.1240E 02		003991E-01	29 95E-06	9 92 9E = 07		8361E-08	.4923E-01
.1250E 02		UU -,4862E-01	.1949E-06	9161E-07		-,9476E-08	.4923E-01
.1260E 02	.4652E	00 -,4612E-01	.1813E-06	.6435E-07		87265-08	.4923E=01
.1270E 02	4604E	004763E-01	.1687E-06	.7767E-07		8035E-08	.4923E=1)1
.1280E 02		006468E-01	.157uE-06	.7138E-07	.76785-01	1015E-07	4923E=J1
.1290E 02	.4483E	00 -,6376E-01	.1460E-06	.6546E-07		9311E-08	.4923E=01 .4923E=01
.1300E 02		00 -,6933E-01	.1358E-06	.6004E-07		941 8E -0 8	.4923E=U1
.1310E 02	.4351E	00 -,6826E-01	.1264E-06	.5498E-07		-,8625E-08	.4923E=01
•1320E 02	.4283E	006720E-01	.1175E-06	.5035E-07	.7581F=01	7898E-08	.4923E-01
.1330E 02	.4211E	007704E-01	.1093E-06	.4604E-07		8423E-08	4923E-01
.1340E 02		007564E-01	.1017E-06	.4205E-07		7693E-08	.4922E-01
.1350E 02	.4U60E	00 -,7783E-01	.9459E-07	.3841E-07		73625-08	.4922E=01
.1360E 02	,3983E	007635E-01	.8796E=07	.3504E=07		-,6718E-08	.4922E-01
.1370E 02		007490E-01	.8163E-07	.3197E-07	.7683F=01	6129E-08	.4922E-01
.1380E 02		UQ8954E-01	.7611E-07	.2911E-07		6814E-08	4922E-01
1390E 02		00 -,8746E-01	.7076E-07	.2645E-07		6191E-08	4922E-01
1400E 02	.3650E	008227E-01	.6583E-07	.2403E-07		5416E-08	49228-01
.1410E 02	.3569E	00 -,8043E-01	.6122E-07	.2185E-07		-,4924E-08	4922E-01
•1420E 02		UU7364E-01	.5693E-07	•1986E-07	.7634E-01	4477E-08	4922E-U1
.1430E 02		008142E-u1	.5294E-07	.1805E-07		-,4311E-08	.4922E-01
•1440E 02	.3329E	007950E-01	.4923E-07	•1639E-07		3914E-08	4922E=01
.1450E 02		00 -,7406E-01	.4578E-07	.1488E-07	.7684E-01	-,3391E-08	4922E-01
.1460E 02		00 -,7239E-01	.4257E=07	.1352E-07	.7684E-01	-,3082E-08	.4922E-01"
.1470E 02 .1480E 02	*3102E	00 -,7076E-01	3959E-07	.1229E-07	.7685E-01	2801E-08	.4922E-01
1490E 02		006915E-01	.3681E-07	•1117E-07		2545E-08	.4922E-01
.1500E 02		006760E-01	.3422E-07	.1015E-07		2313E-08	.4922E-01
.1510E 02		066160E-01	.3182E-07	.9228E-08		-,1960E-08	.4922E-01
1520E 02		006031E-01 005904E-01	.2959E-07	.8400E-08		-,1784E-08	.4922E=01
.1530E 02	27105	006100E-01	.2751E-07	.7646E-0a		-,1624E-08	.4922E=01
.1540E 02		005965E-01	.2556E=07	.6955E-08	_	-,1560E-08	.4922E-01
.1550E 02	.2600E	00 -,5756E-01	.2375E=07	.6322E = 08		1418E-08	4922E-J1
.1>60E 02		005630E-01	.2211E-07	.5747E=08		1272E-08	.4922E=01
.1570E 02		00 -,5506E-01	.1911E=07	.5226E=08		11575-08	4922E-01
.1580E 02		005698E-01	.1776E=07	.4752E=08 .4319E=08		-,1052E-08	.4922E-01
.1590E 02	2375E	60 -,5566E-01	.1651E=07	.3921E-08		1012E-08	.4922E-01
.1600E 02		UG4089E-01	.1535E-07	.3561E-03		-,9190E-09	.4922E=01
.1610E 02	,2279E	00 - 4017E-01	1427E-07	.3252E-08	.7686E=01	-,6276E-U9 -,5731E-09	4922E-01
.1620E 02		00 - 3947E-01	.1326E-07	.2970E-08		-,5731E-09 -,5234E-09	.4922E-U1
		• • • •		4 m × 1 0 C = 0 O	*,0005-01	- , , , , , , , , , , , , , , , , , , ,	.4922E=01

Ė	SIG	SIGP	PHI.	SIG*PHI	F	SIGP*PHI	G
.1630E 02	,2195E	004680E-01	.1233E-07	.2707E-08	.7686E-04	-,6015E-09	40205 14
.1640E 02	,	00 -,4772E-61	.1146E-07	.2460E=08	.76865-01	-,5469E-09	.4922E=01
•1650E 02	,	003263E-01	.1065E-U7	.2237E-08	.76865-01	3476E-09	.4922E-U1
.1660E 02	,	003212E-01	.99UCE-08	.2047E-08	.76865-01	-,3180E-09	.4922E-01
.1670E 02	,2036E	003162E-01	.9202E=08	.1873E-08	.76862-01	-,2910E-09	.4922E-01
.1680E 02	.2000E	004061E-01	.8553E=08	.1710E-08	.7686E=01	-,3473E-09	.4922E-01
.1690E 02	,1959E	003979E-01	7949E-06	.1558E-08	76865-01	3163E-09	4922E-01
.1700E 02	.1920E	003269E-01	.738hE-08	.1419E-08	.7686E=01	-,2415E-09	4922E-01
.1710E U2	,1888£	003213E-61	.6567E-U8	1296E-08	76866-01	-,2206E-09	.4922E-01
.1720E 02	.1856E	003159E-01	.6352E-08	.1184E-08		-,2016E-09	.4922E-01
.1/30E 02	,1624⊨	00 -,3242E-01	5931E-08	.1082E-08	76865-01	1923E-09	4921E-01
.1740E 02	.1792E	003185E-01	5>12E-08	.9875E-09	76865-01	1756E-09	.4921E-01
.1750E 02	.1760E	002442E-u1	.5123E-08	9016E-09	76865-01	1251E-09	.4921E-01
.1760E 02	.1736E	00 -,2408E-01	.4761E-08	.8263E-09	76965-01	1146E-09	.4921E-01
1770E 02		00 -,2375E-01	4424E-08	.7573E-09	76365-01	- 11405-09	.4921E=01
.1780E 02	.1690E	002016E-01	4111E-08	.6948E-09	76965-01	1051E-09 -,8296E-10	.4921E-01
.1790E 02	.1670E	001994E-01	3821E-08	.6380E-09	76365 04	-,0290E-10	.4921E=01
.1800E 02	,1650E	0020318-01	3550E-08	.5858E-09	76845-04	-,7618E-10	.4921E-01
.1810E 02	.1630E	002006E-G1	.3299E-68	.5377E-09	74345 04	7210E-10	.4921E-01
.1820E 02	1610E	0019d1E-U1	.3066E-08	4935E-09	76965-01	-,6618E-10	.4921E-U1
.1830E 02	,1592E	001612E-01	.2849E-08	4535E-09	74045 04	-,6075E-10	.4921E-01
.1840E 02	1576⊨	UU -,1596E-01	.2647E-08	4172E-09	74045 04	4592E-10	.4921E-U1
.1850E 02	.1560E	001621E-01	.246UE-08	3837E-09		-,4224E-10	.4921E-01
.1860E 02	.1544E	001604E-U1	.2285E-08	.3529E-09		3987E-10	.4921E-J1
.1870E 02	.1528E	06 -,1587E-01	.2124E-08	.3245E-09	76065-01	3666E-10	.4921E-U1
.1880E 02	.1514E	00 -,1267E-01	1973E-08	.2987E-09	74045 01	3371E-10	.4921E-01
.1890E 02	.1502E	001198E-01	.1833E-06	.2754E-09	74045 04	-,2382E-10	.4921E-01
.1900E 02	.1490E	001212E-61	.1703E-08	.2538E-09		2196E-10	.4921E-01
.1910E 02	1478E	00 -,1202E-01	.1563E-08	.2339E=09	74045 04	-,2065E-10	.4921E-01
.1920E 02	.1466E	001193E-U1	.1471E-US	.2156E-09	1/000E=U1	1903E-10	.4921E-01
.1930E 02	1456E	608033E-02	.1366E-08	.1989E-09	1/000E=UI	1754E-10	.4921E-J1
.1940E 02	1448F	007989E-02	.1269E=08	.1838E=09	./000E=U1	1097E-10	.4921E-U1
.1950E 02		008056E-02	.1179E-38	.1698E=09	*/000E=01	1014E-10	4921E-01
.1960E 02	.1432E	UU8011E-02	.1096E-03	.1569E=09	./000E=01	-,9500E-11	.4921E=61
.1970E 02	.1424F	007966E-02	.1016E-08	.1449E-09	1/080E-01	-,8777E-11	.4921E-U1
.1980E 02	.1418F	00 - 4008E-02	.9457E-09	.1341E-09	./086E-01	8109E-11	.4921E-01
1990E 02		063997E-02	.8756E-09		./086E-01	-,3791E-11	.4921E-01
	,		10/005-09	.1242E-09	./686E=01	3512E-11	.4921E=01

SPECTRUM AVERAGE CHOSS SECTION = .7686E-01

FE-56(N,P)MN-56 U-235 FISSION SPECTRUM



.6700E 01

.6800E 01

.6900E 01

.70U0E 01

.7100E 01

.7200E 01

.7300E 01

.7400E U1

.7500E 01

.76UDE 01

.7700E 01

.7800E 01

.7900E 01

,2310E-01

.2475E=(1

.2640E-01

.2000E-01

.2960E-01

. 3112E-01

.3264t=61

,3416E-U1

.356bE=01

.3720E-01

.3856E-01

.3992t-01

.4128E-U1

.4264E-U1

1550E-01

.1656E-01

,1600E-01

.1600E-C1

.1520E-01

.1520E-01

.1520E-01

.1520E-01

.1520E-01

.1360E-01

.1360E-01

.1360E-01

.1360E-01

.136GE-01

£	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.3000E 01		.4001E-06	.1323E-03	.1455E-10	.2268E-09	.5291E-10	44945 00
.31UDE 01		.6090E-06	.1246E-03	.1869E-10	1895E-08	.7475E-10	.1474E-07
.32U0E 01		.8500E-06	.1173E-03	.2463E-10	4071E-08	.9970E=10	.1989E-07
.3300E 01		.1250E-05	.1164E-83	3256E-10	.6944E=08	.1380E=09	.2715E-07
.34U0E 01	.4200E=06	.20u0E-05	.103oE=03	.4361E-10	1077E-07	.2077E=09	.3609E=07
.3>00E 01	.6200E≠06	.3000E-05	.9702E-64	.6053E-10	.1600E-07	.3514E=09	.5035E-07
.3600E 01	,9d0üt=06	.5200E-u5	.9175E-04	.6991E-1U	.2357F-07	4771E-09	.7064E-07
.3700E 01		,1000E-04	.8619E-04	.1293E-09	3460E=07	.8619E-09	.1049E=U6
.3800E 01		,1900E-64	.8095E-04	.2024E-09	.5130E-07	.1538E-08	.1515E-06
.3900E 01		.360UE-04	.7599E-04	.3344E-09	.7835E=07	.2736E=08	.235dE+06
.4000E 01	.0000E-05	.4030E-64	.7132E-04	.5705E-09	1240E-06	.2853E-08	.3860E-06
•4100E 01		•1700E-03	.6691E-04	.8029E-09	1930F-06	.1137E-07	.6513E=06 .9363E=06
.42U0E 01	.2900E-04	.2700E-03	.0276E=04	.1820E-08	3258E-06	.1694E-07	.2344E=05
.4300E 01	.56U0E=U4	,370∪£-ŋ3	.5664E-U4	.3295E-08	5840E-06	.2177E-07	.369ûE-U5
.44U0E 01	,9300E-04	.5700E-03	.5516E-04	.5130E-08	100dE-05	.3144E-07	.5d09E=05
.4500E 01	.1500E-03	.890⊍E-03	.5169E-04	.7754E-08	,1657E-05	4549E-07	.8869E=05
.46U0E 01	.2380E-03	.1370E-J2	.4843E-04	1153E-07	2627E-U5	.6635E-07	.1329E=04
.4700E 01	.3750E-u3	.1000E-02	.4537E-U4	.1701E-07	4064E-05	.8166E-07	.1974E=04
.4800E 01	,5550E-03	.3250E⇒û2	.4249E-04	.2356E-07	.6104E-05	.1381E-06	
4900E 01	.8000E=03	.3500E-02	.3970E-04	.3501E-07	.9053E-05	.1392E-06	.2770E=04 .4107E=04
,5000E 01	.1230E=02	.4700E-02	.3724E-04	.458CE-07	.1311E-04	.1750E-06	.5458E=04
•5100E 01	.1700E-02	.4400E-02	.3485E-04	.5925E-07	.1339=-04	.1533E-06	.7150E=04
.5200E 01	,2140E-02	.1140E-01	.3261E-04	.6979E-07	.2486E-04	.3717E-06	.8656E-U4
.5300E 01	.3280E-02	.1220E-01	.3051E-04	.1001E-06	.3340E-04	.3722E-06	.1225E-03
.5400E 01	.450 <i>u</i> ~-02	.1300c-01	.2854E-u4	.1284E-06	.4488E-04	.3710E-C6	.1586E=03
•5500E 01	.5600£=02	.1360E-01	,2609E-L4	.1548E-06	5909E-04	.3630E-06	.1944E-03
5600E 01	.7160E=02	.1470E-01	.2496E-04	.1787E-06	.7581E-04	.3669E=06	.2296E=03
.5/00E 01	,8630F-05	.147uE-U1	.2333E-64	.2014E-06	.9485E-04	.3430E-06	.2650E=03
.5800E 01	.1010E-01	,1550E-01	.2161E=04	.2203E-06	.1160E-03	.3381E-06	.2982E-03
•5900E 01	.1165E-01	•1550E ~ 01	.2030E-04	.2375E-06	.1389E-03	.3160E-06	.3309E=03
.6000E 01	.1320E-01	.1600E-01	.1905E-64	.2515E-06	.1634E=03	.3048E-06	.3614E=03
.6100E 01	.1480E-U1	,1600E-01	,1780E-04	.2634E-06	1892E-03	.2846E-u6	.3909E-03
.6200E 01	.1640E-01	.1760E-01	.1663E-U4	.2727E-06	.2160E-03	.2827E-06	.4184E-03
.6300E 01	.1810E-01	.1700E-01	.1553E-04	.2812E-06	.2437E=03	.2641E-06	.4457E-03
.6400E 01	.1980E-U1	,1650E-01	.1451E-04	.2873E-06	2721E-03	.2394E-06	.4713E=03
.6500E 01	.2145E-01	.1650E-01	.1355E-04	.2906E-06	3011E-03	.2236E-06	.4944E-03
.6600E 01	.2310F-01	.16506-01	12465-54	20275 04		+ = x = 0 C = 0 O	• ¬ > ¬ ¬ ⊏ ¬ ∪ ⊃

.2088E-06

.1949E-06

.1765E-06

.1647E-06

.1461E=06

.1363E-06

.1272E-06

-1187E-06

.1107E-06

.9244E-07

.8623E-U7

.8043E-07

.7502E-07

.6996E-07

.5160E=03

.5362E-03

.5550E=03

.5720E-03

.5079E-U3

.6020E-03

.6152E-03

.6275E-03

.039JE-03

.6496E-03

.6566E-03

.6669E-03

.6747E-03

.6819E-03

.1265E-04

.1101E-U4

.1103E-04

.1029E-04

.9609E-05

. 2960E-05

.0369E-C5

.7809E-05

.7225E-65

.6797E-05

.6341E-05

.5914E-05

.5516E-05

.5144E-05

.2923E-06

.2924E-06

.2912E-06

.2883E-06

.2844E-06

.2791E-06

.2732E-06

.2667E-06

.2600E-06

.2528E-06

.2445E-06

.2361E-06

.2277E-06

.2194E-06

.3302E-03

,3595E-03

.3686E-U3

.4176E-03

.4463E-03

.4744F-03

.5021E-03

.52915-03

.5554E-03

.5810E-03

.6059E-03

.6299E-03

.6531E-03

.6754E-03

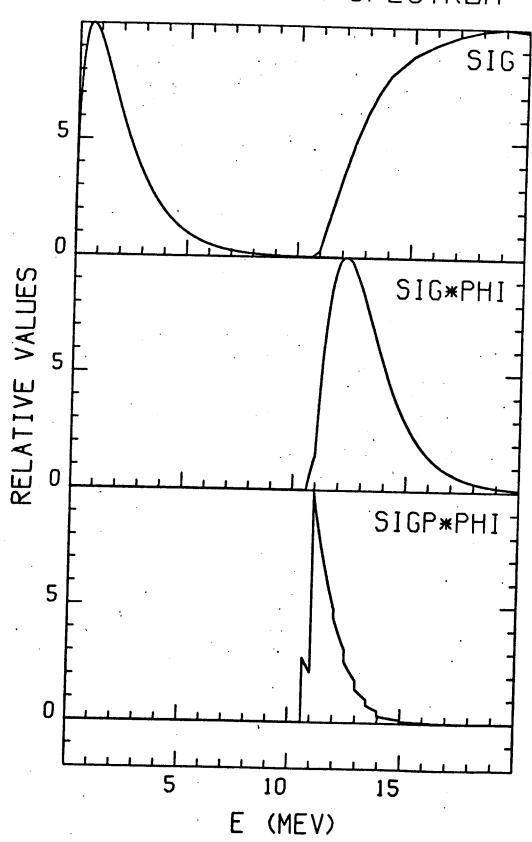
£ '	SIG	SIGP	PHI	SIGOPHI	F	SIGPOPHI	G
.8000E 01	.4400E-61	.12d0E-u1	.4797E-05	.2111E-06	.6970E-03	.6141E-07	.6887E-03
.0100E 01	45286-01	.1230E-01	4473E-C5	.2025E-06	.7176E-03	.5726E-07	.6946E-03
.8200E 01	4656E-U1	.1200E-01	4171E-05	.1942E-06	73758-03	.5339E-07	.7001E-U3
.8300E 01	4784E-U1	,1230E=01	.3880E-05	.1860E-06	.7565E=03	.4977E-07	.7053E-03
.8400E 01	49126-01	.1200E-01	.3625E-05	.1781E-06	,7747E-03	.4640E-07	.7101E-C3
. 8500E 01	5040E-u1	.126UE-01	.3379E-05	.1703E-06	,7921E-03	.4258E-07	.7146E-U3
.8600E 01	.5166E=01	.126UE-01	.31505-65	.1627E-06	.dG87E=03	.3969E=07	.7137E-03
.8700E 01	5292E-01	.1260E-J1	.2930E-05	.1554E-06	.8246E=03	.3699E-07	.7225E-03
.8800E 01	.541oE=01	.1260E-01	.2736E-05	.1482E-06	.o398E-03	.3448E-07	.7261E=03
.89UOE 01	.5544E=01	,1260E-01	.255uE-05	.1414E-06	.8543F-03	.3213E-07	.7294E-03
.9000E 01	,3670E=61	.1320E-01	.2376E-05	.1347E-06	.3681E-03	.3137E-07	.7325E-03
.9100E 01	.5a02E-01	.1320E-01	.2214E-05	.1285E-06	.3612F-03	.2923E-07	.7355E=03
.9200E 01	.5934E-01	.1320E-01	.2063E=05	.1224E-06	.8938E-03	,2723E-07	.7333E-03
,9300E 01	.6066E-U1	.1320E-01	.1922E-05	.1166E-06	.9157E=03	.2537E=07	.741JE-03
.9400E 01	,619bE-01	.1320E-01	.1791E=05	.1110E-06	.9171E-03	.2364E=07	.7434E-03
.9500E 01	.6330E=01	.1450E-C1	.1668E-05	.1056E-06	. 7279E=03	.2436E=07	.7457E=u3 .7481E=u3
.9600E 01	.6476c=01	.1400E-01	.1554E=U5	.1006E-06	.9362E-03	,2269E=07 ,2114E=07	.7502E=03
,9700E 01	.6622E=01	.1460E=01	.1448E-05	.9587E-07	.9374E=03	.1969E-07	.7523E+03
.9800E 01	.6768E-01 .6914E-01	.1460E-01 .1460E-01	.1348E=05	.8684E-07	.9463E=03	.1834E-07	.7542E=03
.1000E 02	.7u60E-01	.1620E-01	.1170E-05	.9258E-07	.9748E-03	1895E-07	.7560E-03
.1010E 02	.72226-01	.1620E-01	.1059E-05	.7867E-07	93285-03	.1765E-07	.7578E-03
.1020E 02	.7364E=01	1620E-01	.1014E-05	.7491E-07	.9905E-03	.1643E-07	.7595E=03
.1030E 02	7546E-U1	1620E-01	.9447E-06	7129E-07	.9978E-03	.1530E-07	.7611E=J3
1040E 02	7708E-01	.1620E-01	.6797E-06	.6761E-07	1005E-02	1425E=07	.7625E-03
.10>0E 02	787UE-01	.1700E-u1	8191E-06	.6446E-07	.1011E-02	1392E-07	.7639E-03
.1060E 02	.8040E-U1	.1706E-01	.7627E-06	.6132E-07	.1018E-02	.1297E-07	.7653E-03
.1070E 02	.021UE-U1	.1700E-01	.7101E-66	.5830E-07	.1024E-02	,1207E-07	.7665E=03
.1080E 02	. 0380E-01	.1700E-61	,6611E-06	.5540E-07	·10295-02	.1124E-07	.7677E=u3
.1090E 02	.8550E-01	.1700E-01	.6154E-66	.5262E-07	.1035E-02	.1046E-07	.7688E=0 3
.1100E 02	.8720E-U1	.1630E-u1	.5729E-06	.4 99 6E = 07	.1040E-02	,9625E-08	.76 98E-U3
.1110E 02	,8538E-01	.1680E-01	,5333E - 96	.4740E-07	.1045E-02	.8960E-08	.7707E-03
.1120E 02	,9056E-01	.1680E-01	.4965E=06	.4496E-07	.1049E-02	.8340E-08	.7716E-U3
.1130E 02	.9224E-01	.1680E=01	.4621E-06	.4262E-07	.1254E-02	.7763E-08	.7724E=03
.1140E 02	.9392E-01	.1680E-01	.4301E-J6	.4040E-07	.1058E-02	.7226E-08	.7731E=03
.1150E 02	.9560£-01	.1400E-U1	.4003E=06	.3827E-07	•1962E=02	.5925E=J8	.7730E=U3
.1160E 02	97086-01	.1480E-01	.3726E=06	.3617E-07	.1066E=02	.5514E-U8	.7744E=03
.1170E 02	.9056E-U1	.1490E=01	.3468E=06	.3416E-07	.1069E=02	,5132E=08	.7749E=G3
.1180E 02	.1000E 00	.1460E-01	.3227E=06	.3228E-07	.1072E=02	,4776E+08	.7759E=03
.1190E 02	.1015£ 00	.14c0E-u1	.3003E=06	.3049E=07 .2878E=07	.1078E=02	4192E-08	7763E=03
.1200E 02	.1030£ 00		.2795E-06	.2717E-07	.1076E-02	.3901E=06	.7767E=03
.1210E 02	.1045E 00 .1060E 00	.1500E-01	.2000E=06	.2717E=07	.1.84E-02	.2420E=98	.7771E-03
.1230E 02	.1070£ 00	.1600E-01	.2251E-06	.2409E-07	.1086E+02	.2251E+08	.7773E-03
.1240E 02	1080± 00	.1000E-01	.2095E-06	.2262E=07	.1089E=02	.2095E+C8	.7775E-03
.1250E 02	.1090E 00	.1000E-01	.1949E-06	.2125E-07	.1091E-02	.1949E=08	.7777E=03
,1260E 02	.1100£ 00	.1000E-01	18136-06	.1995E-07	.1093E-02	.1813E-08	.7779E-03
.12708 02	.1110E 00	.1000E-01	1507E-U6	.1873E-07	1095E-02	.1687E-06	.7781E-03
.1280E 02	.1120E UU	5002E-02	1570E-06	.1758E-07	.10975-02	,7851E-09	.7763E-03
.1290E 02	.1125E 00	.5000E-02	.146UE-06	.1643E-07	.1098E-02	.7301E-09	.7783E-03
· - • 		· ·	•				

t	SIG	SIGP	PHI	SIG*PHI	F		
.1300E 0	2 44700		_	3.0-7111	r	SIGPOPHI	G
1310E 0					1100E-02	2 ,2856E=12	
.1320E 0	_ ,,				1101E-02	1263E=08	
1330E 0	- 122 02 0			.1340E-07	,1103E-0	.5251E-12	
.1340E 0	,			.1246E-07	1104E-02	2784E-14	
.1350E 0			.1017E-06	.1159E-07	·1105E=02		11.123600
.1360E 02		U -,9995E-02	.9459E-u7	.1078E-07		.0000E 00 !9455E-09	•7765E-03
	. ,,,,,,,			.9942E-08		-,4091E-12	.7785E-03
.1370E 02		0 .30000 00	.81 63E-07	.9247E-08		00000	.7734E-03
.1380E 02	.1130E 0	U9995E-U2	. 76115-67	.660UE-08		.0000E a0	.7764E-03
.1390E 02		65002E-02	.7078E-07	.7 92 8E - U B	.1110F-02		.7784E-03
.1400E 02		05000E-02	.6583E=07	.7340E-08		3541E-09	.77 64E=03
-1410E 02		09998E-02	.6122E=07	6796E-08		3292E-09	.7783E-03
.1420E U2		010C0E-C1	.5693E=07	.6263E-08	-11175-02	6121E-U9	.7783E-03
.1450E 02		01000E-01	.5294E=07	.5771E-08	11175 02	-,5693E-09	.7782E-03
•1440E 02		U1000E-01	.4923E-07	5317E-08	11135-02	5294E-09	.7762E=03
.1450E 02	.1070E C	02999E-a1	4578E-07	.4899E-06	111106-02	4924E-09	.7761E-03
.1460E 02	.1040E 0	U1598E-64	.4257E-07	.4428E-08	11145-02	1373E-05	.7731E-J3
+1470E 02	.1040 ₺ 00	1999E-û1	.3959E=07	4117E-08	111146-05	6804E-12	.77düE⇒03
.1480E 02	,1020E 00	1001E-61	.3681E-07	.3754E-08	• 11 15 E= 62	7913E-09	.778ՇE+აპ
.1490E 02	,1010E ((1600E-01	.3422E-07	.3457E-00	+1115E=02	3683E-u9	.7779E - JS
.1500E 02	,9940E=U1	1746E-01	3152E-07	.3163E-08	1110E-02	-,5475E-69	.7776E=1)3
•1510E 02	,9766E-01	1740E-u1	2959E-07	.2889E-08	11165-02	-,5537E-09	.7776E+@3
.1520E 02	.9592E-01	1746E-01	.2751E-07		11105-02	-,5148E-09	.7777E-u3
•1530E 02	.94185-01	1740E-01	25585-07	.2639E-08	1117E-02	-,4786E-09	.7777E-03
.1540E 02	.9244==01	1740E-01	2378E=07	•2409E-03	+11175-02	4450E-n9	.7776E-J3
1550E 02	.9070E-01	176UE-01	.2211E-07	.2198E-08	•1117E=02	4137E-09	.7776E=03
.1560E 02	. 00925-01	-,1700E-u1	.2055E=07	.2005E-08	•1117E-02	3935E-09	.7776E=u3
.1>70E 02	.3714E-01	1780E-01	.1911E-07	.1827E-08	•1117E-02	-,3658E-09	.7775E=03
.1580E 02	.5536E-U1	-,17s0E-u1	.1770E=07	.1665E-08	.1118E-02	3401E-09	.7775E-63
.1590E 02	.8358E-01	-,1780E-01	.1651E-07	.1516E-08	·1118E-02	-,3161E-09	.7775E-u3
.1600E 02	.8180F-61	-,1120E-01		.1380E-08	·1118E-02	-,2939E-09	.7774E-03
.1610E 02	.8068E=01	1120E-U1	.1535E-07	1255E-08	•1116E-02	1720E-09	.7774E=63
.1620E 02	.7956+=41	1120E-01	1427E-07	.1151E-08	.1118E-02	-,1598£-ú9	.7774E=33
.1630E 02	.7844F=01	1120E-01	.1326E-07	.1055E-08	•1118E-02	1485E-09	.7774E-US
.1640E 02	.7732F=U1	-,1120E-01	.1233E-07	.9670E-09	•1118E-J2	1381E-09	7773E-US
.1650E 02	.7620r=01	1400E-01	.1146E-07	.8860E-09	•1116E-02	1283F-09	.7773E-03
.1660E 02	.7480F-01	1400E-01	.1065E-07	.8116E-U9	•1119E-02	-,1491E-09	.7773E-us
.1670E 02	.7340F=61	140UE-01	.9900E=0d	.7405E-09	•1119E=n2	1386E-09	.7773E-03
.1680E 02	.7200E=01	-,1400E-01	.9202E-08	.6754E -09	-1119E-02	1288E-n9	.7773E-U3
.1690E 02	.7000E=01	1400E-01	.6553E-98	.6158E-09	·1119E-02	1197E-09	.7773E=03
.1700E 02	.6020E=01	1140E-U1	.7949E-08	•5612E=09	.1119E-02	1113F-09	.7773E-03
.1710E 02	-6406E-01	1140E-01 1140E-01	.7365E-08	.5113E-09	.1119E-02 ⋅	8424E-10	.7773E-03
.1720E 02	.6692E=81	1140E-01	.6867E-03	•4673E-09	.1119E-02 -	.7828E-10	.7772E-U3
.1730E 02	.65786-01	1140E-01	.6362E-US	4271E-09	·1119E-02 ·	••7275E•1∩	.7772E=03
.1740E 02	-64645-01	1140E-01	.5931E-08	.3901E-09	.1119E-02 .	.6761E-10	.7772E-03
1750E 02	.63506-01	9202E-02	.5512E-08	.3563E-09	•1119F=02 •	.6284E-10	.7772E-03
.1760E 02	.62582-64	9200E-02	.5123E-08	•3253E-09	.11196-02 -		.7772E=03
.1770E 02	**************************************	9200E-02	4761E-LH	.2979E-09	.1119E-02 -	4 7 0 6 7	.7772E=63
.1780E 02	- 60746-01	9200E-02		•2728E-09	·1119E-02 -	4000	.7772E=03
.1790E 02	508201	- 92006-02	4111E-08	.2497E-09	.1119E-02 -	-	.7772E=03
	1-7066-01	9200E-02	.3021E-06	.2285E-09	.1119E-02 -		.7772E=03
						1 6 - E - I O	

Ł		SIG	SIGP	PHI	SIGOPHI	F	SIGP*PHI	G
.1800E .1810E .1820E .1840E .1850E .1850E .1870E .1970E .1930E .1950E .1950E .1980E	00000000000000000000000000000000000000	.5806E-01 .5722E-01 .5636E-01 .5554E-01 .5470E-01 .5470E-01 .5334E-01 .5266E-01 .5130E-01 .5130E-01 .5046E-01 .5046E-01 .4962E-01 .4968E-01 .4968E-01	8401E-028400E-028400E-028400E-028400E-026600E-026600E-026600E-024200E-024200E-024200E-025199E-025199E-025200E-025200E-02	.3550E-08 .3299E-08 .3066E-08 .2647E-08 .2647E-08 .2466E-08 .2124E-08 .1973E-08 .1533E-08 .1703E-08 .1543E-08 .1266E-08 .1179E-08 .1096E-08 .1096E-08 .1018E-09 .87d6E-09	.2091E-09 .1916E-09 .1754E-09 .1470E-09 .1345E-09 .1335E-09 .133E-09 .1039E-10 .8739E-10 .6053E-10 .7420E-19 .6837E-10 .6837E-10 .5802E-10 .5802E-10 .4902E-10 .4505E-10	.1119E-02 .1119E-02 .1119E-02 .1119E-02 .1119E-02 .1119E-02 .1119E-02 .1119E-02 .1119E-02 .1119E-02 .1119E-02 .1119E-02 .1119E-02 .1119E-02	2963E-10 2771E-10 2775E-10 2393E-10 2224E-10 1673E-10 1554E-10 1544E-10 1342E-10 7158E-11 6647E-11 6647E-11 5738E-11 5738E-11 5637E-11 5697E-11 5697E-11 5697E-11 5698E-11	.7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03 .7772E=03
COLCTOIN								4

SPECTRUM AVERAGE CRASS SECTION = .1119E-02

CO-59(N, 2N)CO-58 U-235 FISSION SPECTRUM

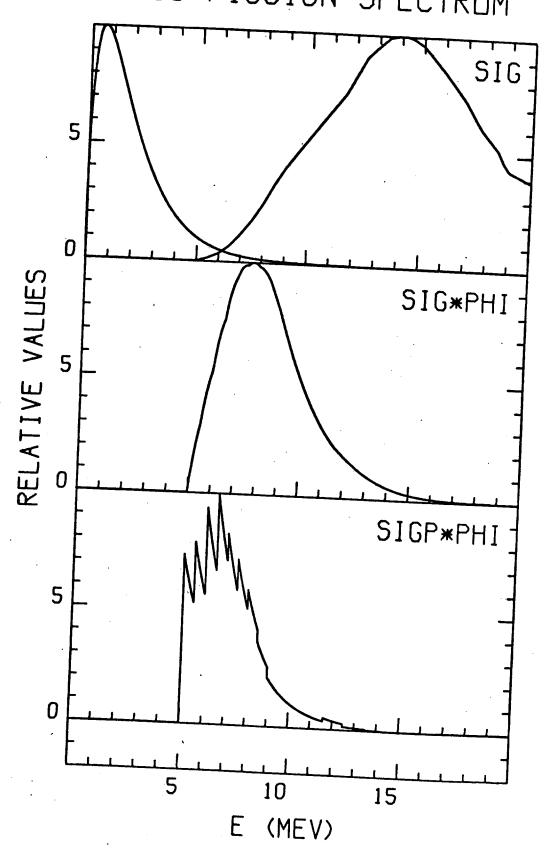


e .	SIG	SIGP	PH [SIGOPHI	F	SIGP•PHI	G
.1070E G2	3353==02	.5556E-01	74.04.0				•
.1050E U2		.5556E-61		.2367E-08		.3945E-07	.2459E=05
.1090E 0			*****			.3673E=07	
.1100E 02							9808E-05
.1110E 02			.5729E=06		12-2-6-63	,1409E-06	.1322E-04
.1120E 02			.4965E-06			.1387E-96	.2759E-04
.1150E 02			.4621E=06	.3574E-07	* * = 2 * = 0 >	.1291E-06	.4097E-04
.1140E 02			.43u1E=06	4529E-07		.1201E=06	.5342E=U4
.1150E 02	.1500E 00		.4003E-16	.5333E-07		.1118E-06	.6501E-04
,1160E U2		.2600E 00	.3720E-06	.6557E-07	•2181E-04	.1041E-06	.75 508-34
•1170E 02	,	.2600E 00	.3460E-06	.7004E-07	•2811E=04	,9667E=07	.8584E-U4
1180E 02		.200UE UU	.3227E-06	.7358E-07	.3490E-04	.9016E-07	.951oE-j4
•1190E 02		,2600E 00	.30J3E-U6	.7628E-07	42895-04	.8390E-07	.1039E⇒J3
.1200E 02	.2000E 00	.2400E GU	.2795E-06	.7825E-07	4959F-04	7 80 8E - 0 7	.1127E-03
•1210E 02	.3U40E 50	.2400E 00	.26U0E-06	.7905E-07	+37325=04 +65195=04	.6707E-97	.1195E-J3
.1220E 02	,3280E uu	.2400E UO	.2420E=06	.7937E-07	.7312E=04	.6241E-07	.1260£-33
.1230E 02	.3520F CA	.2400E 00	.2251E-06	.7925E-07	.01055-04	.5807E-07	.1320E=03
.1240E 02	.3760≅ 00	,2400E 00	.2095E-06	.7877E-07	•8595E-04	.5404E-07	.1376E-03
.1250E 02	.4000E UU	.2606E 60	.1949E-06	.7796E-07	.9679E=04	.5028E-07	.1423E-03
.1260E 02	.4200E 00	.2000E 00	.1813E-06	.7616E-07	•1845E=03	.3899E-07	.1476E-03
1270E 02	.4400⊏ 00	.2000E 0U	.1607E=06	.7423E-07	.1120E-03	.3627E-07	1514E-03
.1280E 02	.4600E 00	.2000E 00	.1570E-06	.7220E-07	•1193E=03	.3374E-07	.1549E=03
.1290E 02	.4800E UU	.2000E 00	.1460E-06	.7009E-07	12652-03	.3139E-07	.1581E-03
.1300E 02	.5000E 00	,166UE 00	.1358E-05	.6792E-07	+1334E=03	.2920E-07	.1612E-03
-1310E 02	,5160E CU	160UE 00	.1264E-06	.6520E-07	.1400E-03	.2174E-07	.1640E-03
.1320E 02	.>320E 00	.1600E 00	.1175E-06	.6253E-07	.1464E-03	.1881E-07	.1661E-U3
.1330E 02	.5480£ 00	.1600E 00	.10 93E-06	.5992E-07	1525E-03	.1749E=07	.1680E=03
.1340E 02	.5640E 00	.1600E 00	.1017E-06	.5736E-07	.1584E-03	.1627E-07	.1698E=03
.1360E 02	.5800E 00	•1200E 00	,9459E-07	.5487E-07	.1640E-03	1135E-07	1715E=03
1370E 02	.5920£ 00	.1200E 00	.8790E-07	.5209E-07	.1693E-03	.1056E-07	.1731E-U3 .1742E-03
.1380E 02	.6040E 00	.1200E 00	.8183E-u7	.4943E-07	17445-03	.9820E-08	.1752E-03
.1390E 02	.6160E 00 .6280E 00	.1200E 00	.7611E-07	.4688E-07	17925-03	.9133E-08	.1762E=03
1400E 02	.6400£ 00	.1200E 00	.7078E=07	•4445E=U7	.1338E-03	.8494E-08	.1770E=03
.1410E 02	.6470E UG	.7002E-01	.6533E-07	.4213E-07	•1881E-03	.4610E-08	.1779E-03
.1420E 02	654UE OU	.7000E-01	.6122E-07	.3961E-07	.1922E-03	.4285E-08	.1733E-03
.1430E 02	.66108 00	.7000E-01	.5693E-07	.3723E-07	.1960E-03	.3985E-08	.1787E-03
.1440E 02	660UE 0U	.7000E-01	.5294E-07	.3500E-07	.1996E-03	.3706E-08	.1791E-J3
1450E 02	.0750E UO	.7000E-01	4923E-07	.3289E-07	.2030E - 03	,3446E-08	.1795E-03
.1460E 02	6820E 00	.7000E-u1	4570E=07	.3090E-07	.20 62 E-03	,3205E-08	.1796E=U3
1470E 02	.0890c UU	.70002-01	.4257E-07	.2903E-07	.2092E-03	,2980E-08	.1301E-03
.1480E 02	6960E 00	.7000E-01	.3081E-07	•2727E-07	.2120E-03	.2771E=08	.1004E=03
•1490€ 02	,7030E CU	.7000E-01	.3422E=07	.2562E-07	•2147E=03	.2577E=08	.1807E-03
.1500E 02	.71005 06	.4002E-01	.3182E=07	.2406E-07	.2172E-03	.2396E-08	.18J9E=03
1510E 02	.7140E 00	.4000E-01	.2959E-07	.2259E-07	.2195E-03	.1273E-08	.1611E-03
.1520E 02	.7180E 00	.4000E-01	.2751E-07	.1975E-07	22175-03	.1183E-08	.1013E-03
•1530E 02	.7220E 00	.4000E-01	,25585-07	•1847E-07	.2237E-03	1100E-08	.1014E=03
.1540E 02	.7260E 00	.4000t-01	.2373E-07	.1726E-07	.2256E-03	.1023E-08	.1815E-03
.1550E 02	.7300E 00	.4000E-01	.2211E-U7	•1614E-07	.2274E-03	,9511E-09	.1816E-03
.1560E 02	.734UE 00	.4000E-01	2055E-07	.1508E-07	.2306E=03	.8842E=U9	.1817E-03
					. 2000 2 - (13	.8220E-09	.1817E-03

Ė., .,	SIG		SIGP	РНІ	SIG*PHI	F	SIGP*PHI	G
.1570E 02				.1911E-07	.1410E-07	.2321F=03	.7642E=09	.1818E-03
.1580E 02	,7420E	. 6	4000E-01	.1776E-07	.1318E-07	.2335E-03		.1819E-03
.1590E 02				.1651E-07	.1232E-07	23475-03		.1820E-03
.1600E 02				,1535E=07	.1151E-07	2359E-03		.1820E-03
.1610E 02	•			.1427E-07	.1074E-07	2370E=03		.1020E-03
.1620E 02	,7560E			.1320E-07	.1003E-07	.2381E=03		.1821E-03
.1630E 02	.7590E			.1233E-07	.9357E-04	.2390E-03		1822E-03
.1640E 02	,762u			.1146E-07	.8732E-08	2399E=03		.1822E-03
1650E U2	,7650E			.10obE-07	.6148E=08	.2408E-03		.1822E-03
.1660E 02	.76d0E			.9900E-08	.7603E-08	.2416E-03		.1823E-03
.1670E 02	.7710⊨			.9202E=05	.7095E-08	.2423E-03	.2761E-09	1623E-03
.1680E 02	.7740E			. 0553E =08	.6620E-08	.2430E-03		.1823E-03
.1690E 02	,777UE			.7949E-08	.6177E-08	.2436E-03	2385E-09	.1823E-03
.1700E 02	.7000E	CU		.73dbE+08	.5763E-08	.2442E-03		.1824E-03
.1710E 02	.7820E		,	.6867E=08	.5370E-08	.24485-03		.1824E=03
•1720E 02	.7840E			.6332E-08	.5003E-08	.2453E-03		.1824E-03
.1730E 02	.700UE			.5931E-08	.4662E-08	.2458E-03	.1186E-19	.1624E-03
.1740E 02	.788CE			.5512£=08	.4344E-08	.2462E-03	.1102E-09	.1824E-03
.1750E 02	.7900E		,	.5123E-06.	.4047E-08	.2467E-03	.1025E-09	.1624E-03
1760E 02	7920E		.2000E-01	.4761E=08	.3770E-08	.2470E-03	,9521E-10	.1824E-U3
.1770E 02	.7940E	Çυ	.2600E-U1	.4424E-08	.3513E-08	.2474E-03	.8848E-10	.1824E-03
.1780E 02	,7960E		.2000E-01	.4111E-08	.3273E-08	.2478E-03	.8223E-10	.1824E-03
.1790E 02	.7980E	0.0	.2000E-01	.3821E-08	.3049E-08	.2481E-03	.7641E-10	.1825E-03
.1800E 02	.0000E	ÜÜ	.1001E-01	,3550E-08	.2840E=08	.2484E-03	.3553E-10	.1825E-03
.1810E 02	.8010E	UC	.1000E-51	.3299E-08	.2643E-08	.2486E-93	.3299E-10	.1825E-03
.1820E 02	. 8020E	0.0	.1000E-01	.3CoòE=08	.2459E-08	.2489F-03	,3066E-10	.1825E-03
.1830E 02	.8030E	OÜ	.1000E-01	.2849E-08	.2286E-09	.2491E-03	.2849E-10	.1825E-U3
.1840E 02	.5040E	00	.1000E-01	.2647E-08	•2128E-08	.2493E-03	.2647E-10	.1825E-03
.1850E 02	.8050E	00	.1000E-J1	.2460E=0d	.1980E-08	.2496F-03	.2460E-10	.1825E-03
.1860E 02		00	.1000E-01	.2266E-08	.1842E-08	.2497F-03	.2286E-10	.1825E-03
.1870E 02	.6070E	00	.1000E-01	.2124E-08	.1714E-0a	.2499E-03	.2124E-10	.1825£-03
.1880E 02	.8080E		.1000E-01	.19/3E=08	.1594E-08	.2501E-03	.1973E-10	.1625E-03
1890E 02	.8090E		.1000E-01	.1633E-08	.1483E-08	.2>02E=03	.1833E-10	.1825E-03
.1900E 02	. d100E	0.0	9 % 3E-02	.1733E=09	.1380E-0a	.2504E-03	1701E-10	.1825E-03
1910E 02	.8090E	00	-,1600E-61	.15d3E-08	.1280E-08	25053-03	1583E-10	.1825E-03
.1920E 02			1000E-01	.1471E-08	•1188E-03	.2506E-03		.1825E-03
.1930E 02	.80/0E	00	1000E-01	.1366E-08	.1103E-08	.2508E-03	1366E-10	.1825E-03
.1940E 02	. 60 60 E	00	1000E-01	.1259E-08	.1023E-08	.2509E-03	1269E-10	.1825E-03
.1950E 02			1000E-01	.1179E-08	.9494E-09	.2510E=03	1179E-10	.1825E-03
1960E 02			1000E-U1	.1096E-08	.8809E-09	.2511E-03	1096E-10	.1825E-63
.1970E 02	.8030E	00	-,1000E-01	.1018E-08	.0174E-09	.2511E-03	1018E-10	.1825E-03
.1980E 02	.00202	UU	-,1000E-01	.9457E=09	.7584E-Q9	.2512E-03	9457E-11	.1825E-03
.1990E 02	.8010E	ÜÜ	1000E-01	.8786E-09	.7037E-09	.2513E-03	8786E-11	.1825E=03

SPECTRUM AVERAGE CHASS SECTION = .2514E+03





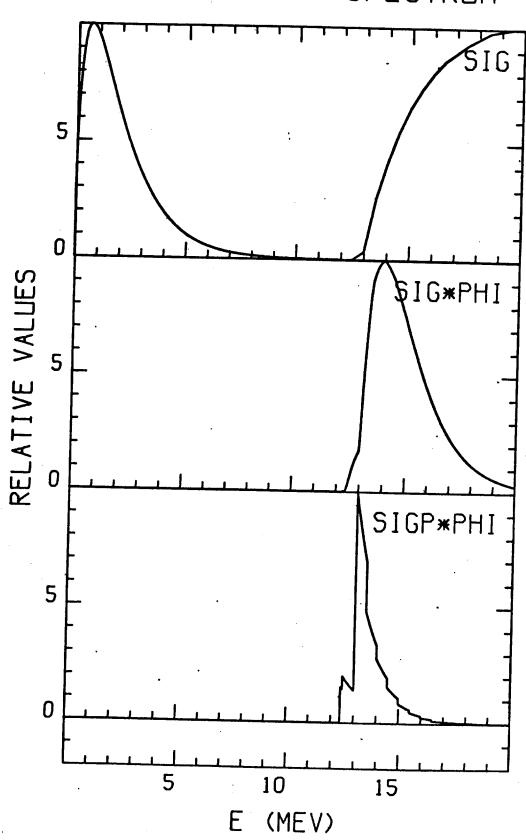
	ŧ.	SIG	SIGP	PH [SIG*PHI	F	SIGP*PHI	G
	.5100E	01 .8000E-04	.8000E=03	.3455F=04	.27885-09	14305-04	37465-67	20445 05
3400E 01	,5200E		-					
3400E 01 3200E-03 3200E-02 3205E-07 3203E-07	.53U0E	01 .2400E-03						
.>5000 01	.>400E	01 .3200E-03	.8000E-03					
\$200E 01	.5500E	01 ,4000E-03	.1200E-02					
3-700E 01			.1200E-02	.2495E-04				
.9800E 01			.1200E-02		.1493E-07			
.9900E 01 .300E-02 .120E-02 .170JE-04 .1794E-07 .6391E-05 .3346E-07 .100E-01 .120E-02 .2700E-02 .170JE-04 .2136E-07 .1074E-04 .3350E-07 .300JE-04 .2632E-04 .200E-02 .170JE-04 .2136E-07 .1074E-04 .3550E-07 .300JE-04 .2632E-04 .200E-02 .150JE-04 .2328E-07 .1500E-04 .3350E-07 .3034E-04 .240E-01 .1500E-02 .200E-02 .155JE-04 .2465E-07 .174JE-04 .3376E-07 .3354E-07 .365E-04 .240E-01 .1500E-02 .200E-02 .155JE-04 .2465E-07 .174JE-04 .3376E-07 .3354E-07 .650UE 01 .200UE-02 .30JUE-02 .155JE-04 .2465E-07 .174JE-04 .3376E-07 .366E-04 .650UE 01 .200UE-02 .30JUE-02 .1265E-04 .271DE-07 .265JE-04 .4005E-07 .474JE-04 .670UE 01 .250UE-02 .30JUE-02 .135JE-04 .271DE-07 .265JE-04 .4005E-07 .474JE-04 .670UE 01 .250UE-02 .30JUE-02 .110JE-04 .250JE-07 .2744E-04 .376E-07 .464UE-04 .690UE 01 .320UE-02 .30JUE-02 .110JE-04 .307JE-07 .2644E-04 .376E-07 .464UE-04 .690UE 01 .320UE-02 .30JUE-02 .35JUE-02 .30JUE-02 .35JUE-02 .30JUE-02 .35JUE-02 .30JUE-02 .35JUE-02 .30JUE-02 .35JUE-02	•		.1200E-02	.2181E-04	.1658E-07			
.0100E 01			.1200E-02	.2038F-04	.1794E-07		•	
.6200E 01		. ,	•	.1985E=84	.1905E-07	.1074E-04		
1400c - 01					.2136E-07		•	
1500E 01			-		.2328E-07	.1500E-04	.3326E-07	
						.1741E-04	,3107E-07	
.060UE 01	14 .					•1997E=04		•
.8000E 01 .260Uc-02 .300UC-02 .11 nitc-04 .3071E-07 .2244E-04 .3546E-07 .5007E-04 .6000E 01 .220UC-02 .300UC-02 .11 nitc-04 .3071E-07 .3158E-04 .3309E-07 .5349E-04 .700UC 01 .320UC-02 .300UC-02 .1029E-04 .3294E-07 .3158E-04 .3309E-07 .5349E-04 .700UC 01 .350UC-02 .350UC-02 .1029E-04 .3294E-07 .3158E-04 .3309E-07 .5569E-04 .710UC 01 .355UC-02 .350UC-02 .960VC-05 .3453E-07 .4157E-04 .3339E-07 .5699E-04 .720UC 01 .420UC-02 .350UC-02 .7899E-05 .3515E-07 .4505E-04 .2299E-07 .6596E-04 .740UC 01 .450UC-02 .350UC-02 .7899E-05 .3515E-07 .4505E-04 .2299E-07 .6596E-04 .740UC 01 .525UC-02 .435UC-02 .7899E-05 .3558E-07 .4505E-04 .2238E-07 .7142E-04 .770UC 01 .525UC-02 .435UC-02 .6797E-05 .3568E-07 .5572E-04 .223E-07 .7709E-04 .770UC 01 .558UC-02 .435UC-02 .5914E-05 .3614E-07 .5931E-04 .223E-07 .7707E-04 .780UC 01 .558UC-02 .435UC-02 .5914E-05 .3614E-07 .5931E-04 .223E-07 .7707E-04 .780UC 01 .654UC-02 .435UC-02 .5914E-05 .3614E-07 .5931E-04 .223E-07 .7707E-04 .790UC 01 .670UC-02 .590UC-02 .5914E-05 .3614E-07 .5931E-04 .223E-07 .7672E-04 .790UC 01 .670UC-02 .590UC-02 .5914E-05 .3614E-07 .5931E-04 .223E-07 .7672E-04 .790UC 01 .670UC-02 .590UC-02 .5914E-05 .3614E-07 .5931E-04 .223E-07 .7672E-04 .790UC-02 .590UC-02 .5914E-05 .3614E-07 .7370C-04 .223E-07 .7842E-04 .790UC-02 .590UC-02 .5914E-05 .3614E-07 .770UC-04 .223FE-07 .8452E-04 .790UC-02 .590UC-02 .590UC-02 .5914E-05 .3550E-07 .770TC-04 .223FE-07 .8652E-04 .790UC-02 .590UC-02 .590UC-02 .590UC-02 .590UC-02 .590UC-02 .4797E-05 .3550E-07 .770TC-04 .223FE-07 .8652E-04 .790UC-01 .440UC-02 .590UC-02	_					.2263E=04	.4065E-U7	.4247E-J4
.6800E 01						.2544E=04		
.6900E 01		,					,3544E-07	.5007E-04
7000E 01 3500E-02 3500E-02 4600E-05 3363E-07 3616E-04 3139A-07 6596E-04 37400E 01 4200E-02 3500E-02 8869E-05 3515E-07 4359E-04 2733E-07 6596E-04 27300E 01 4500E-02 3500E-02 7280E-05 3515E-07 4359E-04 2733E-07 6596E-04 7400E 01 4500E-02 4300E-02 7280E-05 3555E-07 4359E-04 2733E-07 6596E-04 7400E 01 5250E-02 4300E-02 7280E-05 3568E-07 7557EF-04 223E-07 7742E-04 77500E 01 5250E-02 4300E-02 6341E-05 3568E-07 5572E-04 223E-07 7789E-04 77700E 01 6510E-02 4300E-02 5514E-05 3608E-07 5572E-04 2223E-07 77872E-04 77900E 01 6540E-02 4300E-02 5514E-05 3608E-07 6653E-04 2272E-07 77872E-04 77900E 01 6670E-02 4300E-02 5500E-02 4797E-05 3550E-07 6653E-04 2272E-07 8862E-04 77900E-02 5500E-02 4473F-05 3550E-07 77370E-04 2237E-07 8863E-04 8800E 01 7900E-02 5500E-02 4473F-05 3550E-07 77370E-04 2237E-07 8855E-04 8800E 01 9900E-02 55000E-02 3868E-05 3461E-07 78768E-04 1984E-07 9971E-04 8800E 01 9900E-02 55000E-02 3868E-05 3461E-07 78768E-04 1984E-07 9972E-04 8800E 01 9900E-02 55000E-02 3379E-05 33461E-07 8842E-04 1984E-07 9972E-04 8800E 01 1038E-01 4400E-02 3500E-03 3369E-07 9975FE-04 1292E-07 9071E-04 8800E 01 1038E-01 4400E-02 2736E-05 3257E-07 9935E-04 1122E-07 1015E-03 9900E 01 124E-01 3654E-02 2736E-05 3257E-07 1066E-03 8683E-08 1026E-03 9900E 01 1247E-01 3654E-02 2736E-05 2273E-07 1106E-03 8693E-08 1026E-03 9900E 01 1166E-01 3654E-02 2736E-05 2273E-07 1106E-03 8693E-08 1026E-03 9900E 01 1166E-01 3654E-02 1792E-05 2273E-07 1106E-03 8693E-08 1026E-03 9900E 01 1166E-01 3654E-02 1792E-05 2273E-07 1106E-03 8693E-08 1026E-03 9900E 01 1352E-01 3654E-02 1792E-05 2273E-07 11172E-03 5679E-08 1105E-03 9900E 01 11502E-01 3654E-02 1792E-05 1222E-07 1106E-03 5699E-08 11065E-03 1065E-03 9900E 01 11502E-01 3654E-02 11506E-05 1222E-07 11172E-03 5699E-08 11065E-03 1065E-03 1065E-0								.5349E-ù4
.7100E 01			-			_		.5669E-U4
.7200E 01								.5968E-04
7300E 01				-				.6292E-04
7400E 01							•	.6596E=U4
7500E 01								
7600E 01		- ,						
7700E 01								•
.7800E 01	. •	_ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·					
7900E 01			-					
.6000E 01			• • • • •					
.8200E 01			•					
.8300E 01	.6200E 0			•				
.8400E 01 .9400E-02 .5000E-02 .302DE-05 .3408E-07 .3768E-04 .1813E-07 .9460E-04 .6500E 01 .9900E-02 .4400E-02 .3379E-05 .3349E-07 .9106E-04 .1487E-07 .9635E-04 .8700E 01 .1034E-01 .4400E-02 .2936E-05 .3165E-07 .9757E-04 .1292E-07 .9912E-04 .8800E 01 .1122E-01 .4400E-02 .2736E-05 .3070E-07 .1007E-03 .1204E-07 .1004E-03 .8900E 01 .1166E-01 .4400E-02 .2736E-05 .2973E-07 .1037E-03 .1122E-07 .1004E-03 .9900E 01 .1210E-01 .3654E-02 .2376E-05 .2875E-07 .1066E-03 .8683E-08 .1026E-03 .9100E 01 .12472-01 .3654E-02 .2038E-05 .2647E-07 .1094E-03 .8090E-08 .1034E-03 .9300E 01 .1230E-01 .3054E-02 .2038E-05 .2647E-07 .1121E-03 .7538E-08 .1042E-03 .9300E 01 .1350E-01 .3654E-02 .1922E-05 .2233E-07 .1147E-03 .7538E-08 .1050E-03 .9400E 01 .1350E-01 .3654E-02 .1791E-05 .2429E-07 .1172E-03 .6543E-08 .1050E-03 .9500E 01 .1393E-01 .3654E-02 .1606E-05 .2323E-07 .1196E-03 .6696E-08 .1063E-03 .9600E 01 .1466E-01 .3554E-02 .1594E-05 .2221E-07 .1219E-03 .5679E-08 .1069E-03 .9700E 01 .1502E-01 .3654E-02 .1594E-05 .2221E-07 .1219E-03 .5679E-08 .1069E-03 .9900E 01 .1502E-01 .3654E-02 .1448E-05 .2221E-07 .1261E-03 .4927E-08 .1079E-03 .9900E 01 .1509E-01 .3654E-02 .1266E-05 .1235E-07 .1281E-03 .4589E-08 .1079E-03 .1004E-03 .1006E-03 .1006E	.8300E 0		¥ *					-
.8500E 01	.6400E 0							
.600E 01 .1034E-01 .4490E-02 .3150E-05 .3257E-07 .9436E-04 .1386E-07 .9778E-04 .8700E 01 .1078E-01 .4400E-02 .2936E-05 .3165E-07 .9757E-04 .1292E-07 .9912E-04 .8900E 01 .1166E-01 .4400E-02 .2555E-05 .2973E-07 .1007E-03 .1204E-07 .1004E-03 .9000E 01 .1210E-01 .3654E-02 .2376E-05 .2875E-07 .1066E-03 .8683E-08 .1026E-03 .9100E 01 .1247E-01 .3654E-02 .2214E-05 .2760E-07 .1094E-03 .8090E-08 .1034E-03 .9200E 01 .1283E-01 .3654E-02 .2063E-05 .2647E-07 .1121E-03 .7538E-08 .1056E-03 .9400E 01 .1356E-01 .3654E-02 .1922E-05 .2537E-07 .1147E-03 .7023E-08 .1056E-03 .9400E 01 .1356E-01 .3654E-02 .1791E-05 .223E-07 .1172E-03 .6543E-08 .1056E-03 .9500E 01 .1393E-01 .3654E-02 .1666E-05 .2323E-07 .1196E-03 .6096E-08 .1063E-05 .9700E 01 .1466E-01 .3654E-02 .1594E-05 .2221E-07 .1219E-03 .5679E-08 .1069E-03 .9700E 01 .1502E-01 .3654E-02 .1548E-05 .2221E-07 .1240E-03 .5290E-08 .1074E-03 .9900E 01 .1502E-01 .3654E-02 .1348E-05 .2026E-07 .1261E-03 .4927E-08 .1079E-03 .9900E 01 .1502E-01 .3654E-02 .1266E-05 .2026E-07 .1261E-03 .4927E-08 .1079E-03 .9900E 01 .1502E-01 .3654E-02 .1266E-05 .2026E-07 .1281E-03 .4589E-08 .1084E-03 .1084E-03 .1090E-03 .1090E-0	.8500E 0			·				
.8700E 01 .1078E=01 .4400E=02 .2936E=05 .3165E=07 .9757E=04 .1292E=07 .9912E=04 .8800E 01 .1122E=01 .4400E=02 .2736E=05 .3070E=07 .1007E=03 .1204E=07 .1004E=03 .900E 01 .1210E=01 .3654E=02 .2376E=05 .2875E=07 .1066E=03 .8683E=08 .1026E=03 .9100E 01 .1247E=01 .3654E=02 .2214E=05 .2760E=07 .1094E=03 .8090E=08 .1034E=03 .9200E 01 .1283E=01 .3654E=02 .2063E=05 .2647E=07 .1121E=03 .7538E=08 .1042E=03 .9400E 01 .1356E=01 .3654E=02 .1922E=05 .2537E=07 .1147E=03 .7023E=08 .1056E=03 .9400E 01 .1356E=01 .3654E=02 .1791E=05 .223E=07 .1147E=03 .7023E=08 .1056E=03 .9500E 01 .1393E=01 .3654E=02 .1666E=05 .2323E=07 .1172E=03 .6543E=08 .1063E=03 .9700E 01 .1393E=01 .3654E=02 .1564E=05 .2221E=07 .1219E=03 .5679E=08 .1069E=03 .9700E 01 .1466E=01 .3554E=02 .1564E=05 .2221E=07 .1240E=03 .5290E=08 .1074E=03 .9800E 01 .1502E=01 .3654E=02 .1348E=05 .2026E=07 .1261E=03 .4589E=08 .1084E=03 .1090E=03 .9700E 01 .1502E=01 .3654E=02 .1348E=05 .2026E=07 .1281E=03 .4589E=08 .1084E=03 .9900E 01 .1539E=01 .3654E=02 .1266E=05 .1933E=07 .1281E=03 .4589E=08 .1084E=03 .1084E=0	. 0600E 0	1 .1034E-01		•				
.8800E 01 .1122E-01 .4400E-02 .2736E-05 .3070E-07 .1007E-03 .1204E-07 .1004E-03 .900E 01 .1166E-U1 .4400E-02 .255JE-05 .2973E-07 .1037E-03 .1122E-07 .1015E-03 .9100E 01 .1247E-01 .3654E-02 .2214E-05 .2760E-07 .1066E-03 .8683E-08 .1026E-03 .9200E 01 .1283E-U1 .3654E-02 .2063E-05 .2647E-07 .1121E-03 .7538E-08 .1042E-03 .9300E 01 .1320E-U1 .3654E-02 .1922E-05 .2537E-07 .1147E-03 .7023E-08 .1050E-03 .9400E 01 .1356E-U1 .3654E-02 .1666E-05 .2323E-07 .1172E-03 .6543E-08 .1056E-03 .9500E 01 .1393E-01 .3654E-02 .1666E-05 .2323E-07 .1196E-03 .6096E-08 .1063E-03 .9700E 01 .1429E-01 .3654E-02 .1554E-05 .2221E-07 .1219E-03 .5679E-08 .1069E-03 .9700E 01 .1466E-U1 .3554E-02 .1448E-05 .2221E-07 .1240E-03 .5290E-08 .1074E-03 .9800E 01 .1502E-01 .3654E-02 .1348E-05 .2026E-07 .1261E-03 .4927E-08 .1079E-03 .9900E 01 .1502E-01 .3654E-02 .1266E-05 .1933E-07 .1281E-03 .4589E-08 .1084E-03 .1084E-03	.8/00E 0	1 .1078E-01	.4400E-02				•	
.8900E 01 .1166E-U1 .4400E-U2 .255JE-U5 .2973E-U7 .1037E-U3 .1122E-U7 .1015E-U3 .9000E 01 .1210E-U1 .3654E-U2 .2376E-U5 .2760E-U7 .1066E-U3 .8683E-U8 .1026E-U3 .9200E 01 .1283E-U1 .3654E-U2 .2063E-U5 .2647E-U7 .1121E-U3 .7538E-U8 .1042E-U3 .930UE 01 .1320E-U1 .3654E-U2 .2063E-U5 .2537E-U7 .1147E-U3 .7023E-U8 .1050E-U3 .940UE 01 .1356E-U1 .3654E-U2 .1666E-U5 .2323E-U7 .1172E-U3 .6543E-U8 .1056E-U3 .950UE U1 .1393E-U1 .3654E-U2 .1666E-U5 .2323E-U7 .1196E-U3 .6096E-U8 .1063E-U3 .970UE U1 .1429E-U1 .3654E-U2 .154E-U5 .2221E-U7 .1219E-U3 .5679E-U8 .1069E-U3 .970UE U1 .1466E-U1 .3554E-U2 .1448E-U5 .2221E-U7 .1240E-U3 .5290E-U8 .1074E-U3 .990UE U1 .1502E-U1 .3654E-U2 .1348E-U5 .2026E-U7 .1261E-U3 .4927E-U8 .1079E-U3 .990UE U1 .1502E-U1 .3654E-U2 .1348E-U5 .2026E-U7 .1281E-U3 .4589E-U8 .1084E-U3 .1084E-U3	.8800E 0	1 .1122E-01	.4400E-02	.2736E-05				
.9000E 01 .1210E-01 .3654E-02 .2376E-05 .2875E-07 .1066E-03 .8683E-08 .1026E-03 .9100E 01 .1247E-01 .3654E-02 .2214E-05 .2760E-07 .1094E-03 .8090E-08 .1034E-03 .9200E 01 .1283E-01 .3654E-02 .2063E-05 .2647E-07 .1121E-03 .7538E-08 .1042E-03 .9300E 01 .1356E-01 .3654E-02 .1922E-05 .2537E-07 .1147E-03 .7023E-98 .1050E-03 .9400E 01 .1356E-01 .3654E-02 .1666E-05 .2323E-07 .1196E-03 .6543E-08 .1063E-03 .9500E 01 .1393E-01 .3654E-02 .1666E-05 .2323E-07 .1196E-03 .6096E-08 .1063E-03 .9700E 01 .1429E-01 .3654E-02 .1554E-05 .2221E-07 .1219E-03 .5679E-08 .1069E-03 .9700E 01 .1502E-01 .3554E-02 .1448E-05 .2122E-07 .1240E-03 .5290E-08 .1074E-03 .9900E 01 .1502E-01 .3654E-02 .1348E-05 .2026E-07 .1261E-03 .4927E-08 .1079E-03 .9900E 01 .1539E-01 .3654E-02 .1256E-05 .1933E-07 .1281E-03 .4589E-08 .1084E-03		1 .1166E-U1	.440 UE -U2	,255JE-05				
.9100E 01 .12476-01 .3654E-02 .2214E-05 .2760E-07 .1094E-03 .8090E-08 .1034E-03 .9200E 01 .1283E-01 .3654E-02 .2063E-05 .2647E-07 .1121E-03 .7538E-08 .1042E-03 .930UE 01 .1320E-01 .3654E-02 .1922E-05 .2537E-07 .1147E-03 .7023E-08 .1056E-03 .9400E 01 .1356E-01 .3654E-02 .1666E-05 .2323E-07 .1196E-03 .6096E-08 .1063E-03 .9600E 01 .1429E-01 .3654E-02 .1554E-05 .2221E-07 .1219E-03 .5679E-08 .1069E-03 .9700E 01 .1466E-01 .3554E-02 .1448E-05 .2122E-07 .1240E-03 .5290E-08 .1074E-03 .9800E 01 .1502E-01 .3654E-02 .1348E-05 .2026E-07 .1261E-03 .4927E-08 .1079E-03 .9900E 01 .1539E-01 .3654E-02 .1256E-05 .1933E-07 .1281E-03 .4589E-08 .1084E-03			.3654E-02					
.9200E 01 .1283E-U1 .3654E-U2 .2063E-U5 .2647E-U7 .1121E-U3 .7538E-U8 .1042E-U3 .930UE 01 .1320E-U1 .3654E-U2 .1922E-U5 .2537E-U7 .1147E-U3 .7023E-U8 .1050E-U3 .940UE 01 .1356E-U1 .3654E-U2 .1666E-U5 .2323E-U7 .1196E-U3 .6543E-U8 .1056E-U3 .950UE U1 .1429E-U1 .3654E-U2 .1666E-U5 .2221E-U7 .1219E-U3 .5679E-U8 .1069E-U3 .970UE 01 .1466E-U1 .3554E-U2 .1448E-U5 .2221E-U7 .1240E-U3 .5290E-U8 .1074E-U3 .980UE U1 .1502E-U1 .3654E-U2 .1348E-U5 .2026E-U7 .1261E-U3 .4927E-U8 .1079E-U3 .990UE 01 .1502E-U1 .3654E-U2 .1266E-U5 .1933E-U7 .1281E-U3 .4589E-U8 .1084E-U3		1 .12476-01	.3654E-G2	.2214E-05	.2760E-07			
.9300E 01			.3654E-u2	.2063E-65	.2647E-07			-
.9400E 01 .1356E-U1 .3654E-02 .1791E-05 .2429E-07 .1172E-03 .6543E-08 .1056E-03 .9500E 01 .1393E-U1 .3654E-02 .1666E-05 .2323E-07 .1196E-03 .6096E-08 .1063E-03 .9600E U1 .1429E-U1 .3654E-02 .1554E-U5 .2221E-07 .1219E-03 .5679E-08 .1069E-03 .9700E 01 .1466E-U1 .3554E-U2 .1448E-05 .2122E-07 .1240E-03 .5290E-08 .1074E-03 .9800E 01 .1502E-U1 .3654E-02 .1348E-05 .2026E-07 .1261E-03 .4927E-08 .1079E-03 .9900E 01 .1539E-U1 .3654E-02 .1256E-05 .1933E-07 .1281E-03 .4589E-08 .1084E-03			.3654E-02	.1922E-05	•2537E-07	.1147E-03	•	
.900E 01 .1393E=01 .3654E=02 .1666E=05 .2323E=07 .1196E=03 .6096E=08 .1063E=03 .9600E 01 .1429E=01 .3654E=02 .1554E=05 .2221E=07 .1219E=03 .5679E=08 .1069E=03 .9700E 01 .1466E=01 .3554E=02 .1448E=05 .2122E=07 .1240E=03 .5290E=08 .1074E=03 .9800E 01 .1502E=01 .3654E=02 .1348E=05 .2026E=07 .1261E=03 .4927E=08 .1079E=03 .9900E 01 .1539E=01 .3654E=02 .1256E=05 .1933E=07 .1281E=03 .4589E=08 .1084E=03								•
.9700E 01 .1429E-01 .3654E-02 .1554E-05 .2221E-07 .1219E-03 .5679E-08 .1069E-03 .9700E 01 .1466E-01 .3554E-02 .1448E-05 .2122E-07 .1240E-03 .5290E-08 .1074E-03 .9800E 01 .1502E-01 .3654E-02 .1348E-05 .2026E-07 .1261E-03 .4927E-08 .1079E-03 .9900E 01 .1539E-01 .3654E-02 .1256E-05 .1933E-07 .1281E-03 .4589E-08 .1084E-03					.2323E-07			
.9800E 01 .1466E-01 .3554E-02 .1448E-05 .2122E-07 .1240E-03 .5290E-08 .1074E-03 .9800E 01 .1502E-01 .3654E-02 .1348E-05 .2026E-07 .1261E-03 .4927E-08 .1079E-03 .9900E 01 .1539E-01 .3654E-02 .1256E-05 .1933E-07 .1281E-03 .4589E-08 .1084E-03	·		•			.1219E-03		
.9900E 01 .1502E-01 .3654E-02 .1348E-05 .2026E-07 .1261E-03 .4927E-08 .1079E-03 .9900E 01 .1539E-01 .3654E-02 .1256E-05 .1933E-07 .1281E-03 .4589E-08 .1084E-03	-					.1240E-03		
.1000E 02							.4927E-08	
.1086E-03 .4274E-03 .1086E-07 .1843E-07 .1300E-03 .4274E-08 .1086E-03		- ,		•			.4589E-08	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*TAAAE 0	2 13/36=01	+3654E=02	.1170E-05	.1843E-07	.1300E-03	.4274E-08	.1083E-03

E	SIG	SIGP	PHI	SIG*PHI	F	SIGP•PH	I G
.1010E	02 .1612E-01	.3654E=92	40			319145	
1020E	02 ,16486-61	+3554E=02				3 .3980E-0	8 10005-07
.1030E		3-445 50			7 .1335F-03		
	17226-01	.3054E-52			7 .1351F-0:	3452E-0	
	2 .1758E-u1	.3554E+02		•1514E-0	7 1367F=03	3214E-08	
.1060E	2 .1795E-01	.3654E-J2	.8191E-36	.1440E-07	7 13825-03	2993E=08	
.1070E	12 ,1031E-U1	.3654E-02	.7627E-06	-1369E-07	7 .1396E-03		
1080E 0	12 .1664E=01	.3054E=J2	•7101E-G6	.1300F-07	7 .1409E-03		
.1090E 0		.3654E-02	.6611E-06	.1235F-07	** */ - 0 0		
1100E 0		.3654E-C2	.61546-06	•1172E-07			
.1110E 0		.3654E-C2	.5729E-U6	•1112E-07	14455-03		
.1120E 0		.3654E-02	.5333E-06	.1055E-07			.1119E-J3
		.3654E-02	4965E-06	9 99 BE-0 B	** >00=00		•1121E=j3
.1130E 0	- 400000	.3654E-02	.4621E-06	9475E-08			.1123E-03
	- 1000,0-01	,3654E-02	.4301E-U6	.8976E-03			•1125E=03
•1150E 0	_ 107000-01	,3054E-U2	.4003E-06	•0501E=08		.1572E-08	.1125E-03
•1160E 0		.5222E-02	.3726E-06	.8048E=08		.1463E-08	.1126E-03
.1170E 0		.5222E-02	.3405E=06			•1946E-J∂	.1129E-03
1180E 0;	_	.5222E-02	.3227E-06	.7671E=08	+1510E-03	,1811E-08	.1131E-03
.1190E 0		.5222E-02	.3005E-96	.7307E-08	1517E-03	.1685E-08	.1133E-US
.1200E 0		.5222E-u2	.2795E=06	6957E-08	15256-03	,1568E-08	1134E-03
•1210E 02		.5222E-02	.2000E=96	.662GE-08	.1531E-03	+1459E=08	.1135E-03
•1220E 02	2473E=01	-5222E-02	.2420E-05	.6296E-08	.1538E-03	.1358E-18	.1137E-03
.1230E 02	.2526E-C1	.5222E-U2	22545 04	•5985E-08	.15445-03	1264E-08	.1139E-u3
1240E 02	.2578E-01	.5222E-02	.2251E-06	•5686E-08	.1550E-03	.1176E-08	.1140E-03
.1250E 02	,2630E-01	.2801E-02	.2095E-06	.5400E-05	15555-03	+1094E-08	.1141E-03
.1260E 02	. 2658F-u1	.2300E-02	.1949E-06	•5126E-06	·15615-03	.5459E=09	•1142E-03
.1270E 02	.2686E-01	.2800E-02	.1813E-06	•4820E=0∂	.1566F-03	.507 BE-0 9	·1142E-33
.1280E 02	.2713E-01	.2571E-02	·1637E-06	.4532E-08	.1570E-03	4724E-09	
.1290E 02	.2739E-U1	25715 02	·1570E-06	.4258E-08	+1575F=03	.4036E-09	•1143E=03
.1300E 02	27645-01	.2571E-02	.146UE-06	.3999E-08	.1579E-03	.3755E-09	.1143E-03
.1310E 02	.2790E-01	+2571E-02	.1358E-U6	•3755E - 08	.1583E-03	.3493E-09	.1144E=03
.1320E 02	28155-01	.2500E-02	.1264E-06	.3525E-0a	.1386E-03	3159E-09	.1144E-03
.1330E 02	.2340E-01	+2500E-02	.1175E-06	.3309E-05	.1590E+03	.2939E-09	.1144E-03
.1340E 02	.2865E-01	.2500E-02	.1093E-06	.3105E-08	.1593E=03	27375 00	.1145E-U3
.1350E 02	.2690E=01	.2500E-02	.1017E-06	.2914E-08	.1596E-03	.2733E-09	.1145E-03
.1360E 02		5723E-03	.9454E-07	.2734E-08	•1599E=03	.2543E=09	.1145E-03
.1370E 02	.2d 96E=01	•5714E-03	. 67 98E-07	.2548E-06	,1601E-03	,5414E-10	.1146E=03
1380E 02		.5714E-03	.8183E-07	.2374E-03	1504E=03	,5028E-10	.1146E-J3
1390E 02	C + 4 C ** .	+5714E=03	.7611E-U7	.2213E-08	.1606E-03	4676E-10	.1146E-03
		.0000E 00	.7073E-07	.2060E-08	16005-03	4349E-10	.1145E-03
•1400E 02 •1410E 02	.2910E-U1	.000 B 00	.6583E-07	•1916E-08	.1608E-03	.0000E 00	.1146E-û3
4 444		.UJJOE 00	.6122E-07	.1782E-U8	·1610E-03	.0000E 00	.1146E-U3
.1420E 02	,2910c=01	.OuruE .in	,56935-07	.1657E-08	1612E-03	.0000E 00	.1146E-03
.1430E 02	.2906E-u1	6000E=03	.5294E=07	.1539E-03	.1614E-03	,0000E 00	.1146E-03
1440E 02	.2396±=ú1 =.	8600E-03	4923E-07	•1427E=03	•1615E-03 -	.4236E-10	.1146E=03
.1450E 02	.2090E-01	1799E+02		.1323E-03	.1617E-03 -	.3939E-10	.1146E-03
•1460E 02	.2072E-01	1800E-02	4257E=G7	12075=0d	.1618E-03 -	.8239E-10	.1146E-03
1470E 02	.2554E-01	1300E-02		•1223E-09	•1619E-03 -	.7663F-10	.1145E-03
.1480E 02	.2536c-u1	18JUE-02	7 / /	.1130E-08	•1521E-03 -	.7125F-10	.1145E-03
1490E 02	•251dE=01	1500E+62		.1044E-Uò	·16222=03 =	.6626F=10	.11+5E-C3
.1500E 02	.2800E-01		74 10 - 0 -	• A0 42F=0A	·16235-03 -	.6160F-10	.1145E-03
	•,	 (.8910E-09	.1524E-03 -		.1145E-03
	•					· ·	

Ł	SIG	SIGP	PH1	SIG*PHI	F	SIGP*PHI	G
.1510E 02	. 27686-01	-,3200E-02	.2959E-07	.8190E-09	.1625=-03	946 BE-10	.1145E-03
,1520E 02		320CE-02	2751E-07	.7526E-09		-,8803E-10	.1145E-U3
1530E 02		3200E-02	.2550E-07	.6916E-09	.1626E-03	8184E-10	.1145E-03
.1540E 02		3266E-02	.237 gE = 07	.6353E-09	.1627E-03	-,7609E-10	.1145E-J3
1550E 02		-,3200E-02	.2211E-07	.5836E-09	·15275-03	7074E-10	.1145E-03
.1560E 02		-,3200E-02	.2055E-07	.5360E-09	.16285-03	-,6576E-10	.1145E-03
.1570E 02		3200E-02	.1911E-07	.4922E-09	.1028F = 03	-,6114E-10	.1145F=J3
1500E 02		-,3200£-02	.1776E-37	.4518E-09		-,5683E-10	.1145E-U3
.1790E 02	25128-01	3200E-02	.1651E-07	.4147E-09		5283E-10	.1145E-US
.1600E 02	.2480E-01	-,3ou0E-02	.1535E-07	.3806E-09		-,5525E-10	.1145E-03
.1610E 02		-,3600E-02	.1427E-07	.3487E-09	.1630E-03	-,5136E-10	.1145E-U3
.1620E 02		-,3600E-02	.1325E-07	.3194E-09		4774E-10	.1144E-03
.1030E 02		-,36CUE-02	.1233E=117	.2924E-09		-,4438E-10	.1144E=U3
.1640E 02		3000E-02	.1146E-07	.2677E-09		-,4125E-10	.1144E-03
.1650£ 02		-,3600E-02	.1065E-07	.2450E-09		3834E-10	.1144E-03
.1660€ 02		-,3600E-02	.99u0E=08	.2241E-09		-,3564E-10	.1144E=03
.1670E 02	.2228E-01	3600E-U2	.9202E=08	.2050E-09	.1532E-03	-,3313E-10	.1144E-03
.1680E 02		-,36u0E-02	.8553E-08	.1875E-09	1002E-03	3079E-10	.1144E=03
.1690E U2		3600E-U2	.7949E-0d	.1714E-09		-,2862E=10	.1144E-03
.1700E 02		-,4799E-02	.7388E-08	.1566E-09		-,3546E-10 -,3296E-10	.1144E=03
1/10E 02		4600E-u2	.6867E-US	.1423E-09	14725.07	-,3063E-10	.1144E-03
.1720E 02	2024E-01	-,4500E-02	.6382E-08	.1292E-09	14336-03	-,2847E-10	.1144E-J3
.1730E 02	19/55-01	4800E-02	.59312-09	.1063E-09	16335-03	-,2646E-10	.11446-03
.1740E 02	,1928E-01	-,4500E-02	.5512E=08	.9631E-10	16335-03	2254E-10	.1144E-03
.1/50E 02	1380E-01	4400E-02	.5123E=08 .4761E=08	6741E-10	14336-03	2095E-10	1144E-03
.1760E 02	18305-01	-,4400E+02	.4424E=08	.7928E-10		1947E-10	1144E-03
.17706 02	17925-01	-,4400E-02 -,3533E-02	.4111E-03	.7209E-10		-,1370E-10	1144E-03
.1780E 02	17205-01	-,3333E-02	.3621E=08	.6571E-10		-,1274E-10	1144F-03
.1790E 02	14470-01	-,3333E-02	.355JE=08	.5988E-10		1183E-10	1144E-J3
.1890£ 02	4.5636=01	3333E-u2	.32 99E = 38	.5455E-10		-,1100E-10	.1144E-03
.1810E 02		-,3333E-ú2	.3065E-08	.4967E-10		-,1022E-10	1144E-U3
•	16876-01	-,3333£-62	.2849E-08	4520E-10		-,9496E-11	.1144E-03
.1030E 02		3333E-02	.2647E=06	4112E-10	• • • • • • •	8824E-11	.1144E-03
1850E 02		5998E-02	2460E-08	.3739E-10		1475E-10	.1144E-03
.1860E 02	1460E=01	6000E-02	.2286E-08	.3337E-10	.16332-03	1371E-10	.1144E-03
.1870E 02	1400E-01	-,6000E-u2	.2124E-08	.2973E-10	.1633E-03	-,1274E-10	.1144E-03
.1850E 02	13506-01	4030E-92	1973E-08	.2664E-10		7693E-11	.1144E-U3
.1690E 02	13106-61	-,4000E-02	.1833E-68	.2402E-10	.1634E-03	7334E-11	.1144E-J3
1900E 02		-,1302E-02	.17u3E-08	.2163E-10	.1634E-03	-,2218E-11	.1144E-03
.1910E 02		-,1300E-u2	.1583E-09	.1989E-10		-,2058E-11	.1144E=03
19206 02		-,13uUE-UZ	.1471E-08	.1829E-10	.1634E-03	-,1912E-11	.1144E=03
.1930E 02		1300E-02	.1306E-08	.1682E-10		1776E-11	.1144E-03
.1940E 02	.1210E-01	1300E-02	.1269E-08	.1546E-10		-,1650E-11	.1144E-03
1950E 02	.12056-41	-,1330E-62	1179E-08	.1421E-10	.1634E-03	1533E-11	.1144E-03
.1960E 02	11926-01	-,1300E-02	.1096E-08	.1306E-10	1634E=03	-,1424E-11	.1144E-03
1970E 02	11796-01	1300E-02	.1010E-08	.1200E-13	.1634F=03	-,1323E-11	.1144E-u3
1980E 02	.1165E-01	-,1300E-02	.9407E-09	.1103E-10		-,1229E-11	.1144E-03
1990E 02	.1153E-U1	1300E-02	. 6700E-09	.1013E-10	,1634E-03	-,1142E-11	.1144E-ù3
		-					

SPECTRUM AVERAGE CRUSS SECTION = .1634E-03

NI-58(N, 2N)NI-57 U-235 FISSION SPECTRUM

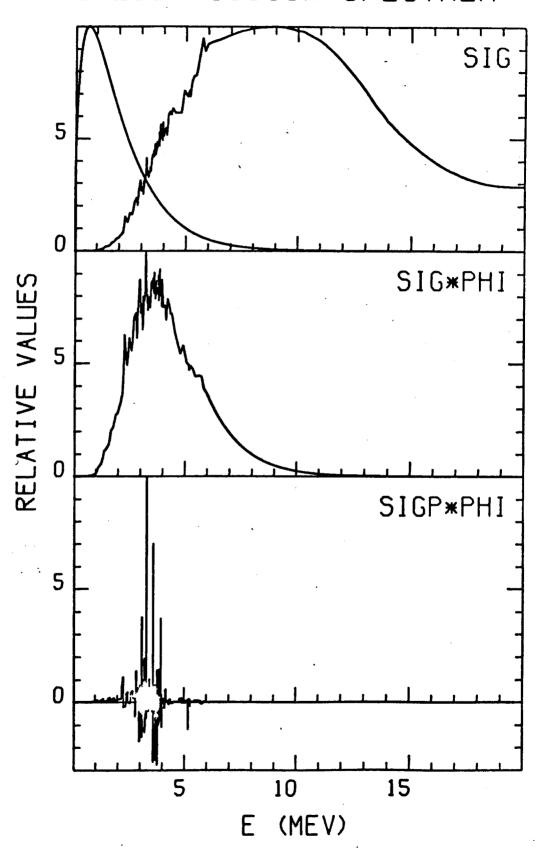


•							
E	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.1250E 02		.3654E-02	.1949E-06	.4347E-10	.1898E=08	74245 00	45555
.1260E 02		.3654E-U2	.1813E-06	1067E-09	.7518E-08	,7121E-09	.4555E-07
.12/0E 02		.3524t-62	.1687E-86	.1609E-09	1172000	.6626E-09	.1142E-06
.1280E 02	.1319==02	.3654E-02		.2071E-09	,	.6165E-09	.1781E-J6
.1290E 02	.1685E-02	.30>4E-02	.1460E-06	.2460E-09		.5735E-09	
1300E 02	.2050E-02		13565-06	.2785E-09		,5335E=09	•2929E=06
.1310E 02			.1264E-06		.9050E-07	•3517E=08	.3474E-06
.1320E 02		.2590E-01	•1175E=36	.5863E-09	.1343E-06	.3273E≖∩8	.6660E=06
.1330E 02		.2590E-01		.6493E-09	.2066E-06	,3044E-08	.1002E≠05
134UE 02	.1241E-01		.1093E-06	.1074E-08	.30325-06	.2832E-ns	.1296E-05
.13>0E 02	.1500E-01	.2590E-U1	.1017E-06	•1262E-08	.4?03E-06	.2634E-08	.1569E-J5
.1360E 02		•1800E-01	.9459E-07	.1419E-08	•5547F=C6	.1703E-08	.1822E-05
.1370E 02	1680E-01	.1800E-01	.879üE→07	•1478E-08	.59975-06	.1584E-08	1986E-05
	10605-61	.1000E-01	.8183E-07	.1522E-08	.8499E-06	.1473E-06	.2139E-C5
1380E 02	,2340E-01	•1830E - 01	.7611E-07	·1553E-08	.1004E-05	.1370E=08	.22315-05
.1390E 02	.2220==01	.18J0E-U1	.707oE=07	.1571E-08	.1160E-05	,1274E-08	
.1400E 02	.2400E-U1	,1500E-01	.6583F-07	.1580E-08	.1318F-05	9875E-09	.2413E-05
.1410E 02	25508-01	.1500E-J1	.6122E-07	.1561E-08	.1475E=05	.9183E-09	.2536E-05
1420E 02	.2700=-61	.1500E-01	. >693E-07	.1537E-08	1630E-05		.2631E-05
.1430E 02	2450E-01	.15.0E-01	.5294E-07	.1509E-08	.1782E-05	.8540E-09	.2720E-05
.1440E 02	.3000E-01	.15J0E-01	.4923E-07	.1477E-08		.7942E-09	.2002E-U5
.1450E 02	.3150E-U1	.1200E-01	4570E-07		19315-05	.7385E-09	.2879E-05
.1460E 02	327JE-01	.1200E-01		.1442E-08	.2077E-05	,5495E-09	.2950E-05
.1470E 02	.3390E-01	.1200E-01	.4257E=07	.1392E-08	• 22195-05	•5109E-09	.3003E-05
1480E 02	,3510E-U1	.1200E-01	.39595-67	.1342E-08	.23565-05	,4750E-09	.3052E-05
1490E 02	.3630E=01		.3661E-07	.1292E-06	.2487E-05	.4417E-09	.3098E-05
1500E 02		.1260E-01	.3422E-07	.1242E-08	.2614E-05	.4107E-09	.3140E-05
.1510E 02	.3750E-01	.9401E-02	.3152E-07	•1193E-08	.2736E-05	.2992E-09	.3180E-05
	.3844E-01	.9400E-02	.2959E=07	•1137E-08	. 2652E-05	.2781E-09	.3209E-U5
.1520E 02	.3938E-01	.9400E-02	.27>16-07	.1083E-08	.2963E-05	.2586E-09	.3235E-05
.1530E 02	.4032E-01	.9400E-02	.25o⊳E-07	.1031E-08	.3969E-05	.2404E-09	.3260E-05
1540E 02	.4126E-01	.9400E-02	.2376E-07	.9811E-09	.3170E-05	2235E-09	.3283k-05
1550E 02	.4220E-01	.7601E-02	.2211E-07	.9329E-C9	3265E-05	.1680E-09	
.1560E 02	,4296E-01	.7600E-02	.2055E-07	.8829E-09	.3356E-05	,1562E-09	.3305E-05
1570E 02	.4372E-01	.7600E-02	.1911E-07	.8353E-09	.3442E-05	,1452E-09	.3321E-05
.1>80E 02	.4445E=01	.7600E-02	.1776E-07	.7900E-09	.3523E-05		.3336E-05
.1590E 02	.4524E=01	.7600E-02	.1651E-07	7469E-09	.3600E=05	.1350E-09	.3350E-05
.1600E 02	.4600E-01	.6001E-02	.1535E-07	.7060E-09	.3672F=05	.1255E-09	.3363E-05
.1610E 02	.4660E-01	.6000E-U2	.1427E-07	.6649E-09	.3741E-05	,9210E-10	.3375E-05
.1620E 02	4720E-01	.6000E-02	.1326E-07	.6260E-09		.8560E-10	.3364E-05
.1630E 02	.4780E-01	.6000E-02	.1233E-07	.5893E-09	-3805E-05	.7957E-10	.3392E-05
·1640E 02	,494UE-U1	.6000E-02	.11465-07		3c66F-05	.7397E-10	.3400E-05
.1650E 02	4900E-u1	.4001E-02		.5546E-09	3923E-05	•6875E-10	.3407E-05
.1660E 02	494UE=61	.4JU0E+02	.1065E-07	.5219E-09	.3977E-05	.4262E-10	.3414E-05
.1670E 02	4980E-U1		. 99 U CE = 08	4891E-09	4028E-05	.3960E-10	.3418E-05
.1680E 02	.502JE-61	.4000E-02	.92JZE-08	.4583E-09	+4075E-05	.3681E-10	.3422E-J5
.1690E 02		.4000E-02	.8553E-0e	4294E-09	.4119E-05	.3421E-10	3425E-05
1700E 02	,5060E=01	.4000E-02	.7949E-0d	.4022E-09	.4161E-05	.3160E-10	3429E-05
	.5100E-01	.4000E-02	.738aE-08	.3768E-09	4200E-05	.2955E-10	.3432E-05
.1710E 02	.5140E-01	.4000E-02	.6567E=08	.3529E-09	4236E-05	.2747E-10	.3435E-05
1720E 02	.5180E-01	.4000E-62	.6302E-00	.3306E-09	.4270E-05	.2553E-10	.34376-05
.1730E 02	.5220E-01	.4000E-02	.5931E-08	.3096E-09	.4302E-05	.2372E-10	.3440E=05
.1740E 02	,5260E+U1	.4000E-02	.5512E-U8	.2899E-09	.4332E-05	.2205E-10	
							.3442E-05

t	SIG	SIGP	PHI	SIG*PHI	F	SIGPOPHI	G
.1750E 02 .1760E 02 .1760E 02 .1770E 02 .1780E 02 .1800E 02 .1810E 02 .1830E 02 .1850E 02 .1850E 02 .1850E 02 .1870E 02 .1870E 02 .1890E 02 .190E 02 .1910E 02 .1920E 02 .1930E 02 .1940E 02 .1940E 02 .1950E 02	.5300E-U1 .5330E-U1 .5350E-U1 .5360E-U1 .5390E-U1 .5450E-U1 .5450E-U1 .5450E-U1 .5540E-U1 .5600E-U1 .5610E-U1 .5610E-U1 .5640E-U1 .5650E-U1 .5650E-U1 .5670E-U1 .5670E-U1 .5670E-U1 .5670E-U1 .5670E-U1 .5670E-U1 .5670E-U1	3001E-02 3000E-02 3000E-02 3000E-02 3000E-02 3000E-02 3000E-02 3000E-02 3000E-02 .000E-02 .000E-02 .000E-02 .000E-02 .000E-02 .000E-02 .000E-02 .000E-02	.5123E-08 .4761E-08 .4761E-08 .4424E-08 .4111E-08 .3250E-08 .3250E-08 .32649E-08 .2647E-08 .2647E-08 .2406E-08 .2246E-08 .2246E-08 .2246E-08 .2124E-08 .2124E-08 .2124E-08 .2124E-08 .2124E-08 .2124E-08 .2124E-08 .2124E-08	\$1G*PHI .2715E-09 .2537E-09 .2371E-09 .2216E-09 .2071E-09 .1935E-09 .1808E-09 .1689E-09 .1578E-09 .1578E-09 .1111E-09 .1111E-09 .1034E-09 .1034E-09 .1034E-10 .8959E-10 .8959E-10 .8723E-10 .6722E-10 .6723E-10	F .4381E-05 .4494E-05 .4494E-05 .4558E-05 .4558E-05 .4658E-05 .4668E-05 .466	\$1GP*PHI .1537E-10 .1428E-10 .1327E-10 .1233E-10 .1146E-10 .9898E-11 .9197E-11 .8546E-11 .7941E-11 .2464E-11 .2286E-11 .1269E-11 .1583E-11 .1583E-11 .1583E-11 .1583E-11 .1583E-11 .1583E-11 .1583E-11 .1583E-11 .1000E-11 .0000E-00	G .3444E-05 .3446E-05 .3446E-05 .3446E-05 .3446E-05 .3452E-05 .3452E-05 .3455E-05 .3455E-05 .3456E-05 .3456E-05 .3457E-05 .3457E-05
	• - • - · ·			.5390E-10 .5008E-10	.4674E=05 .4679E=05	.0000E 00	.3457E=05

SPECTRUM AVERAGE CROSS SECTION : .4684E-05

NI-58(N, P)CO-58 U-235 FISSION SPECTRUM



Ē	SIG	SIGP	PHI	SIG*PHI	F	SIGP•PH	I G
.4000E 0	0 .4000E-06	.9541E-as	3497E-03		_		
.5000E 0	C .3u00F-05	.4675E-04					1410E-06
.00005 0		.21>0E=03				.1694F=1	
./UUOE 0		1026E-02		* *** * * * * * * * * * * * * * * * * *		.7908E-07	
.5000£ 0	0 .2013=-03	.2193E-02				.3778F-ne	
.9000E 0	U .4165E-U3	.4616E-02			7 .5975F+n5	,7999E-J	
•1000€ 0	1 .06935-03	.5047E-02		12.700.00	.1651E-04	.1654E-05	1533E-03
•1100E 0	1 .2372:-02	.2549E-01				.1767E=05	.3139E-03
.1200E 0	1 .4345F-02	.1398E-01	10.00-00	•8072E=06	.07975-04	.8673E-05	
.1300E 0	1 .03436-02	,3555E-01				.4604E-05	
.1400E 0	1 11096-01	.6216E+01		.2015E-05	.3744F=03	.1129E-04	
.1500E 0	1 .13096-01	17776			.6394E-03	,1899E-04	
.1600E 0	1 .1556=01	+1777E=01	.2930E-03	.3835E-05	.1005E-02	.5207E-05	
1/00E 0	2337F-u1	.2710E-01	.20J5E-U3	.4363E-05		.7602E=05	
.1800E 0		•9942E-01	.2674E-03	.6260E-05	.1937E-02		4 . 7
.1900E 01	3471E-01	.2652E-01	.2554E-0J	.6718E-05	.2591E-02	.2663E-04	.70846-02
.2000E 01		.935E-01	.2432E+03	.8441E-05	.3345E=02	.6850E-05	
.2100E 01		.3149E-01	.2312E-03	.8799E-05	4210E-02	.2392E=i)4	.9944E+02
.2200E 01		.7 y43E-01	.21 96E-03	9915E-05	.5143E-02	.7397E-05	.1072E-U1
.2300E 01		,9559b-01	.2003E-03	.1123E-04	6200E 62	.1744E-04	.1233E+01
** *		1459E 00	.1973E-03	1959E-04	•6200E-02	.1991E-04	.1420E-01
		1259E 00	.1868E-03	.1601E-04	•7712E-02	-,2878E-04	.2333E-u1
	,1087E UU	•3268E DO	.1767E-03	.1920E-04	.9485E-02	-,2352E-04	.2073E-01
.2600E 01	12227 20 -	.3599E-01	.1670E-u3	•1784E-04	11202-01	.5774E-04	.2496E-01
.2700E 01	.1365 <u>€</u> 00	.4022E 00	1577E-03	·2152E-04	.1306E-01	-,6008E-05	.2459E-01
.2800E 01	.1536£ úu	.1440E 00	.14dbE=03		•14 99E=01	.6341E-04	.2945E-01
2900E 01	.1726E OG	.4751F 66	1403E-03	.2285E-04	•1723E-01	.2143E-J4	.3203E-01
.3000E 01	1939E 00 -	.7246E 00	.1323E-u3	-2422E-04	19425-01	.6666E-04	,3473E-01
.3100E 01	.17095 GU -	.7 50 2E 0U	.1246E-03	.2564E=04	+2206E-01	9583E-04	.3755E-01
.3200E 01	•2167E 00	4368E UD	·1173E-03	.2129E-04	·2442E-01 ·	9 72 0E - 14	.3461E-01
.3300E 01	2267E UU -	.4231E 00	11045-03	.2542E-04	•2682E=01	,5710E-04	.4034E-01
.34U0E 01	.2379E UU	.4301E 00	.1035E-03	.2502E-04	.2958E-01 -	.4670E=34	41>26-01
.35UOE 01	23300	.3470E 00		.2471E-04	.3201E-01	,4465E-J4	.4276E-01
.3600E 01		.8861E UO	19702E=04	.2713E-04	.3457E-01	.3387E-14	.4678E=U1
3700E 01	7	.1151E 01	.9175E-04	.2598E-04	.3726E-01	.8130E-J4	4734E-01
.3800E 01	* > *	.2227E 01	.8619E=04	•2664E-04	.3988E-01	,9921E-04	.4965E-01
.3900E 01		2432E 01	.8095E-04	.2713E-04	,4249E-01	,1803E-03	•5186E-01
.4000E 01		6441E 00	7599E-04	.2631E-04	.4521E-01	.18485-03	.5276E-01
.4100E 01		2727E 00	.7132E-04	.2524E-04	.4779E-01	4594E-04	.5320E-01
.4200E 01	2 3 2 2 2 2 2 2	1176E 01	.6691E-U4	.2398E-04		1825E-04	• -
.4300E 01		9720E-01	.6276E-04	.2405E-04		.7380E-04	.5345E-01
.4400E 01		2933E CU	.5894E-04	.2409E-04	E 4 A 4 = -	,5720E=05	.5505E-01
.4500E 01		9772E-01	.5516E-04	.2284E-04		.1618E-04	.566UE-01
.4600E 01			.5159E-04	.2132E-04		.5052E-05	.5007E-01
4700E 01	4 . 70	0000E 00	.4643E=C4	.1972E-04		.0000E 00	.5677E-01
.4800E G1		0000E 60	.4537E-04	.1847E-04		.0000E 33	•5651E-01
4900E 01	40000	0000E CO	.4249E-04	.1730E-04		0000E 00	.5651E-01
.5000E 01	A (E E !!	5247E 00	.3978E-04	.1798£-04	randi III (2087E-04	.5651E-01
5100E 01			13/245-04				.5937E-01
.5200E 01			.34 85E-04	45045		4118E-05	.5888E-01
.5300E 01			•3461E=04	.1487E-04			.5849E-U1
	170175 00 +	1904E 00	.3051E-04				.5057E-01
				_ .		5810E-05	.6001E-01

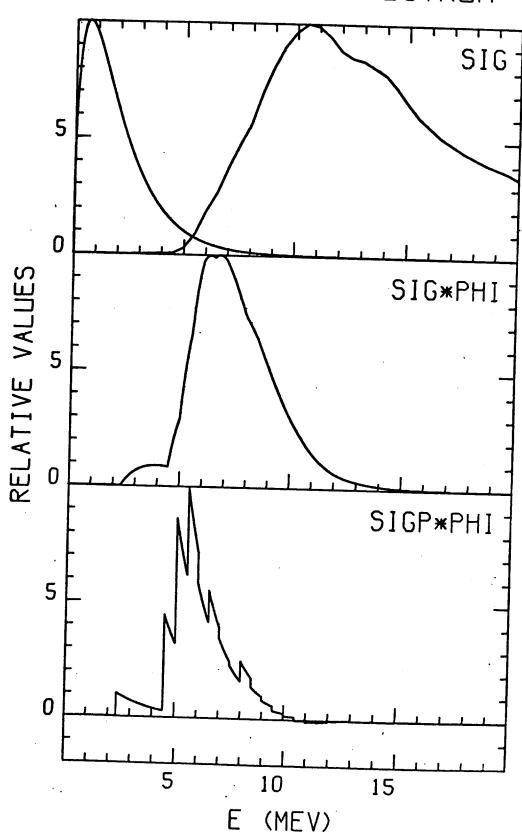
É	\$1G	SIGP	ьні	SIG*PHI	F	SIGP*PHI	G
.5400E 01	.5162E UU	.2559E-01	.2654E-04	.1473E-04	.7505E-01	.7389E-06	.6044E=01
.5500E 01	5227E UU	.3/c1E 00	.2669E-04	.1395E-04	.7648E=01	.1009E-04	.6062E-01
.>600E 01	5619E 00	4064E 40	.24 YoE-04	.1402E-04	.7787E-01	.1014E-04	.6164E-U1
.5700E 01	.00216 00	.333UE 00	2333E-U4	.1405E-04	.7928E-01	7770E-05	.6261E-01
.5800E 01	6160E UD	3982E 00	2101E-04	.1344E-04	.0067E-01	8686E-05	.6291E-U1
.5900E 01	.5936E ÛU	,1620E (I)	.2U3bE=J4	.1210E-04	.8193E-01	.3302E-05	.6244E-01
.6000E 01	,0100E 00	3100E-01	.19u5E-04	.1162E-04	,3312E-01	.6058E-06	6277E=01
.6100E 01	.61322 00	3176E-51	.178JE-04	.1091E-04	.3424E-01	.5689E-06	.6282E-01
.6200E 01	.0164c UU	3213E-01	.1003E-04	.1025E-04	.d530E=01	.5342E=06	.6263E-01
.6300E 01	6190£ 00	.1995E-01	.1553E=#4	.9615E-05	36292-01	.3099E=06	.6292E-01
.6400E 01	.6210E JU	.2002E-01	1451E-04	.9010E-05	.0723E-01	.2904E-06	6295E+01
6500E 01	.6230E UU	.2734b-01	.13>>E=U4	.8441E-05	.8810E-01	3773E-06	.6298E=01
.6600E 01	6258E 00	.2797E-01	.1205E=04	.7918E-05	.8891E-01	.3539E-06	.6302E-01
.6700E 01	62865 00	.2009E-01	.1151E-04	.7426E-05	.3968E-01	.3319E-06	.6305E-U1
.0800E 01	6314E 00	.2791E-01	1103E-04	.6963E-05	.9040E-01	.3073E-06	.6308E-01
.6900E 01	.6342E UG	.2803E-U1	.1029E-04	.6529E-05	.9107E-01	.2856E-06	.6311E-01
7000E 01	.6370E UU	.23n9E=01	9609E-05	.6121E-05	.9171E-01	.2295E=06	,6314E-01
./100E 01	.6394E UU	.23yot-01	.8968E-05	.5734E-05	.9230E-01	.2130E-06	,6310E=U1
.7200E 01	.6413E UU	,2497E-01	.8369E=05	.5371E - 05	.9285E-01	.2014E-06	.6310E=01
73U0E 01	.5442E ÜÜ	.2393E-01	.780YE-05	.5030E-05	.9337E-01	.1869E-06	.6320E-01
.7400E 01	.6466E UU	,24J2E-61	.72dbE-J5	.4711E-05	.93865-01	.1750E-06	.6322E-U1
75JOE 01	.6490= 00	.1197E-01	.6797E-05	4411E-05	.9432E-01	8138E-07	.6324E-01
.7600E 01	.6502E 00	.119 9E -01	.6341E-05	.4123E-05	,9474E-01	.7605E-07	.6325E-01
7700E 01	.6514E UU	.1202E-01	.5914E-05	.3853E-05	.9514E-01	,7107E=97	.6325E - 91
.7800E 01	6530E 00	.1995E-01	.551oE-ú5	.3602E-05	.9551E-01	.1101E-06	.6326E-U1
7900E 01	.6550E UU	.20028-01	.5144E=05	.337nE-05	.9586E-01	.1030E-76	.6327E-01
8000E 01	.570E 00	.7909E-UZ	.4797E-05	.3152E-05	.2619E=01	.3832E-07	.632dE=u1
.8100E 01	.6578E 00	.7998E-U2	.4473E+05	.2942£-05	.9649E=01	.3578E=07	.6329E⇒U1
.8200E 01	.6586E 00	.8∪07Ŀ-02	.4171E-05	.2747E-05	.9678E-01	.3340E=07	.6329E⇒01
6300E 01	.6592E 00	.3998E-02	.ახწწE-05	.2563E-05	.9704E-01	,1555E-07	.6329E+01
.84U0E 01	,6596E 0U	.4001E-02	.3625E-05	.2391E-05	.9729E-01	.145UE-07	.6327E-01
.8500E 01	.6600E 00	.3997E-02	.3379E-05	.2230E-05	.4752E-01	.1351E-07	.6329E=01
.8600E 01	.6634E UU	.3999E-02	.3150£-05	.2080E-05	,9774ë - 01	1260E-07	.6330£-01
.8780E 01	.6608E 0u	.4002E-02	.293¢E=05	.1940E-05	,9794E-01	.1175E-07	.633 VE - U1
.6800E 01	.6612E 00	.3998E-02	.2736E-05	.1809E-05	,9812E-01	.1094E-07	.6330E-01
.8900E 01	.6610E UÜ	.4001E-u2	.2550E - 05	.1687E-05	.9830F-01	.1020E-07	,6330E-01
.9000E 01	.6620E UO	-,4Ju2E-02	,2376E-û5	.1573E-05		-,9509E-08	.6330E-01
.9100E 01	.6616E UU	4001E-62	,2214E-05	.1465E-05	.9861E-01		.6330E-01
.9200E 01	.6612E 00	-,3998E-02	.2063E-05	.1364E-05		-,8249E-08	.6330E-01
.93UOE 01	.6606£ 00	80u7E-U2	.1922E-05	.1270E-05		-,1539E-07	.6330E-01
.9400E 01	,6598E UO	7998E-J2	.17915-05	.1182E-05		-,1432E-07	.6330E-01
.9500E 01	.659DE 00	-,1605E-01	.1000E-05	.1099E-05		-,2677E-07	.6329E=01
.9600E 01	•	1601E-01	.1554E-05	.1022E-05		-,2488E-07	.6329E-01
.9700E 01	• · · · · ·	1597E-01	.1443E-05	.9494E-06		-,2312E-07	.6329E=01
.9800E 01	• •	-,2005E-01	.1346E-05	.0819E-06		2703E-07	.6329E=01
.99UOE 01	•	-,1998E-U1	.1250E-05	.8189E-06		2510E-07	.6328E=01
.1000E 02	,6500E 00	8015E-02	.1170E-05	.7603E-06		9375E-08	.6328E-01
.1010E 02	.6492E UU	•	.10b9E-05	.7072E-06	.9966E-01	8718E-C8	.6328E-01
.1020E 02	•	-,7443E-02	.1014E-05	.6578E-06			.6328E-01
.1050E 02	.6462E 00	-,3615E-C1	.9447E-06	.6105E-06	.9979E=01	-,3415E-07	.6320E-01

Ë	SIG	SIGP	PHI	CICADUI	r		•
•	·		* F1 &	SIG-PHI	F	SIGPOPHI	G
.1040E 02	, , , , , ,	U3595E-01	,5797E-06	.5653E-06	. 2985E-A	13162E-07	41745-34
.1050E 02		u -,3626E-01	. 61 91E-06	.5234E-06	99 90F=0	12970E-07	.6328E-01
.1060E 02		U3605E-01	.7627E - 06	.4846E-06		1 -,2749E-07	.6327E=01
•1070E 02		035a5E-01	.71u1E-J6	.4486E-U6	1000E 0	- 2545E-07	.6327E=01
.1080E 02		U3015E-01	.6611E=06	.4153E-06	1000F n	-,2390E-07	.6326E-01
•1090E 02	.6246E U	03595E-01	.61>4E=06	.3844E-06	.1001E 0	2212E-07	.6326E=U1
.1100E 02	+621UE 0	U5254E-01	,5729E - 06	.3558E-06	.10019 90	-,3010E-07	.6326E=01
.1110E 02	.0128E U	05211E-U1	.5333E-06	.3284E-06	.1002E 00	2779E-07	.0326E-U1
.1130E 02	10100E 0	5157E-01	.496>E-06	.3031E-06	.1002E 00	-,2565E-07	.6325E-J1
.1140E 02	* 00 20 E 01	-,6045E-01	.4621E-06	.2796E - u6	.1002E 00	2793E-07	.6325E-01
.1150E 02	*>>>0 FO THE OIL	-,5985E-01	.4301E-06	.2576E-06	•1002€ 00	-,2574E-07	6325E-01
.1160E 02	12430E U	6599E-01	40u3E-06	•2374E-06	1603E 00	2762E-07	6325E-01
.1170E 02	570A 00	6819E-01	.3720E-06	.2184E-06	•1703E 00	-,2541E-07	.6324E-01
.1180E 02	12/74E U(-,6740E-01	.3468E-06	.2009E-06	.1003F 00	-,2337E-07	.6324E-01
.1190E 02	545100	7268E-u1	.3227E-06	.1847E-0ó	.1003E 00	-,2345E-07	.6324E-01
.1200E 02	1202IE 00	7176E-01 8146E-01	.3033E-06	.1697E-06	.1003E co	-,2155E-n7	6324E-01
.1210E 02	54405 00	-,8J28E-J1	.2795E-06	.1559E-06	•1004E 00	-,2276E-07	.6323E-J1
.1220E 02	- 5419E 00	79128-01	.260UE-06	.1430E-06	•1004€ 0n	-,2088E-07	.6323E=51
.1230E 02	.53395 00	8090E-01	.2429E=06	.1311E-06	.1004E 00	-,1914E-37	.6323E=01
.1240E 02	.52595 00	-,7969E-01	.2251E-06	•1202E-06	.1004E 00	18226-07	.6323E=01
1250E 02	.3180F UU	8158E-v1	.2095E=06	•1102E-06	•1904E 00	-,1669E-07	.6323E-01
.1260E 02	.5199E 00	-,8030E-01	.1949E-06	•101UE-06	•1004€ 00	1590E-07	.6323E-01
.1270E 02	.5019F 00	7 905E-01	.1813E-06	.9247E-07	•1004E 00	-,1456E-07	.6322E-01
.1280E 02	.4933= 00	9350E-01	.1687E-06	•8468E-07	+1004E 00	1334E-07	.6322E-01
.1290E 02	43416 00	9155E-01	.1460E-06	.7743E-07	+1905E 00	1464E-07	.6322E-01
.1300E 02	.475UE 00	1027E 00	.1358E=06	.7068E-07	*1005E 00	-,1337E-07	.6322E=01
.1310E 02	.4648E UO	1005ē 00	.1264E-06	.6452E-07	·1005E 00	-,1395E-07	.6322E=01
.1320E 02	.4549E UU	-,9337E-01	•1175E=06	.5347E-07	10025 00	1270E-07	.6322E-01
.1330E 02	.4449E 00	1017E 00	.10 93E-06	.4864E-07	10055 00	1156E-07	.6322E-01
.1340E 02	.4348E GU	9941E-U1	.1017E-06	.4422E-07	11055 00	-,1112E-07	.6321E=01
.1350E 02	.4250 ± JO	8194E-01	9459E-07	4020E-07	10050 00	-,1011E-07	.6321E-U1
.1360E 02	.4169E 00	8637E-01	.8798E-07	.3668E=07	14055 00	7751E-08 7071E-08	.6321E-01
.1370E 02	.4089E UO	7384E-01	8183E-07	.3346E-07	10055 00	6451E-08	.6321E=01
.1380E 02	.40u3e 00	-,9360E-01	.7611E-U7	.3047E-07	10055 00	7124E-08	.6321E=01·
1390E 02	.3910E ∪0	9144E-01	.7073E-07	.2768E-07	.1005E 00	6472E-08	.6321E=01
.1400E 02	.38208 00	-,6956E-J1	.6583E - 07.	.2515E-07	1005E 00	45795-08	.6321E=01
.1410E 02	.3721E 00	6330E-01	.0122E-07	.2296E-07	10055 00	-,4181E-08	.6321E=01. .6321E=01
.1420E 02	.36835 00	6707E-01	.5693E=07	.2097E-07	.1005= 00	3818E-08	.6321E-01
.1430E 02	36135 00	73J9E-01	,5244E-07	.1913E-07	.1005E 00	3870E-08	.6321E=01
.1440E 02	.3541E 00	7162E-01	.4923E=07	.1743E-07	10055 00	-,3526E-08	.6321E-01
	3470E 00	-,6133E-01	.457±E=07	.1589E-07		2808E-08	.6321E-u1
+1460E 02 +1470E 02	13407E 00	6026E-01	.4257E-07	.1451E-07	.1005E 00	2565E-08	6321E-01
.1480E 02	100175 00	5920E-U1	.3959E-07	•1326E-07	.1005E 00	-,2343E-08	.6321E-01
.1490E 02	1320/6 00	6494E-01	.3651E-07	.121CE-07	.1005E 00	-,2390E-08	.6321E-01
.1500E 02	.31600 00	6367E-J1 5728E-G1	.3422E-07	•1103E-07	.1005E 00	-,2179E-08	.6321E-J1
.1>10E 02	31035 00	-,5624E-01	.3102E-07	.1006E-07	•10055 00	1823E-08	.6321E-01
.1520E 02	-3047E 00	5523E-01	.2959E=U7	.9182E-08	.1005E 00	1664E-08	.0321E-01
.1530E 02	.2991E III	5679E-01	.2751E-07	.8383E-08	.1005E 00	1519E-^8	.6321E-01
	4		.255dE-07	.7651E-03	.1005E 00	1452E-08	.6321E-u1

E SIG SIGP PHI SIG+PHI F SIGP+PHI	G
.1540E 02 .2935E 005572E-01 .2373E-07 .6979E-08 .1005E 001325E-08	4 TO 4 E 3 4
1550E 02 2380E 15 - 4033E-31 2234E-07 (7/4) 03 (1002 00 4,132)E-08	.6321E-01
1540E 00 3144 00 4400E 00 1100FE 00 1100FE 00	.6321E-01
46 105 00 0304	.6321E-01
ANADE DO CORRESPONDE AND	.6320E-01
45.00	.6320E-01
1600E 33 34405 BD = 4404E 01 4544 37	.6323E-01
1610F 02 2505E 00 - 4415E 31 4437E-07 7707E 00 10070E-07	.0320E-01
1620E 02 2652E 01 = 474.E=04 470.E 17 276.E	.632UE-U1
1630E 02 2510E 00 . Acces of 4000E 07	.6320E-01
1640E 02 24762 60 = 7 0375 04 447.5 05 00000	.6320E-01
1,100 M 4,40045413	.6320E-01
16606 02 21945 00 - 76445 24	.6320E-01
1270E 00 1100DE 00 4:337/E=09	6320E-01
1ARDE 03 3/3/4 00 03/5/ 00 121/02-00 11009E 00 4:32/9E=09	.6320E-U1
**************************************	6320E-01
1/00F 00 2070C 00 = 7500E 14 2700E 10	632JE-01
17105 02 22406 00 70406 (4 4 4 7 5 6 7	6320E-01
11/205 00 33105 10 23705 14 42/05 00 11/05 00 11/05 00 12/05/64/9	632JE-01
A TRACE AND ARREST TO THE PROPERTY OF THE PROP	6320E-01
1740E 02 2453E 03 = 2704E 04	6320E-01
17505 02 24255 60 - 20201 04 54425 30 11005 00 11005 00 11005	6320€=0 <u>1</u>
TAKE AN ANTHUM OF ANTEON OF THOSE OF THE PROPERTY .	6320E-01
4770E 00 20040 00 00 71	6320E-01
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6320E-01
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6320E=01
1000 00 1000 00 1000 00 1000 00 1000 00	6320E-01
19405 00 11005 00 0000 00 171005 00 01000 05 10 0	6320E-01
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6320E-01
40 YOU AS 100 DE 10 TO	6320E=u1
18405 02 10415 00 44405 4 27475 00 170175 00 1,3204510 1	6320E-J1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6320E-01
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6320E-U1
	632JE-01
10000 00 11000 UU - 2110E-10 .	6320E-J1
	6320E=01
.1890E 02 .1916E 005995E-02 .1633E-08 .3513E-09 .1005E 001099E-10	6320E-01
	6320E-01
.1910E 02 .1906E 004002E-02 .1503E-00 .3017E-09 .1005E 006334E-11 .	6320E-01
.1920E 02 ,1902E 003994E-02 ,1471E-05 .2797E-09 ,1005E 005873E-11	6320E-J1
1930E U2 11398E 004006E-02 .1366E-08 .2593E-09 .1005E 005474E-11	6320E-01
-1740E 02 ,1594E 00 -,3998E-02 ,1269E-03 ,2404E-09 ,1005E 00 -,5075E-11 ,0	6320E-U1
-1970E 02 -1690E 003220E-05 -1179E-08 -2229E-09 -1005E 003797E-14	6320E-U1
. 00 9000 00 .1390E 00 .1096E-08 .2071E-09 .1005E 00 .0000E no	6320E=U1
. 1970E 02 .1890E 00 .0000E 00 .101dE+08 .1924E-09 .1005E 00 .0000E 00	6320E-01
.1980E 02 ,1890E 00 ,0000E 00 ,9457E-09 .1787E-09 ,1005E 00 ,0000E 00 .	6320E-01
	6320E-01

SPECTRUM AVERAGE CROSS SECTION = .1005E 00





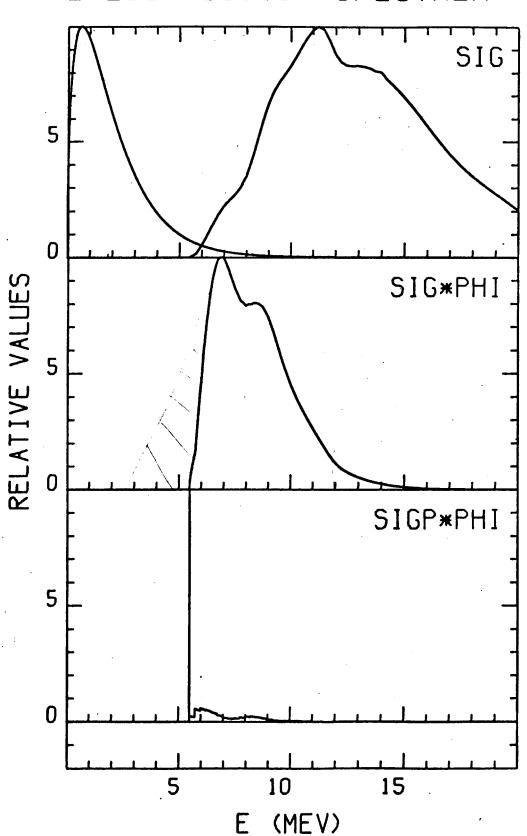
22400	Ę	SIG	SIGP	ЬНI	SIG*PHI	F	SIGP*PHI	G
2-200E 01	.2400E 01	.7266E-u5	4727=-03	.1868E-03	.1357E-08	.1115E-07	.8830E-07	.1452E=05
.e000		•		-			-	
2800E 01		•					•	
2000E 01		• -	.4727E=03	.1577E-03	.2351E-07			
3400E 01	.2800E 01	1964L-US	.4727E-03	.1430E-U3	.292ZE=07	.6596E-05	7034E-07	.33U7E=04
3300E 01 3362E-03 4727E-03 1736E-04 472FE-07 512E-04 5545E-07 512E-04 3300E 01 4327E-03 4727E-03 1104E-03 4727E-07 2048E-04 5545E-07 512E-04 3400E 01 4300E-03 4727E-03 1104E-03 4727E-07 2048E-04 490E-07 6550E-04 4300E 01 5745E-03 4727E-03 9762E-04 5147E-07 3347E-04 490E-07 6550E-04 4300E 01 5745E-03 4727E-03 9762E-04 5545E-04 4615E-07 7779E-04 3500E 01 5745E-03 4727E-03 9762E-04 5540E-07 4497E-04 4075E-07 7779E-04 3500E 01 6216E-03 4727E-03 8019E-04 5540E-07 497E-04 4075E-07 8199E-04 4900E 01 7164E-03 4727E-03 8019E-04 5540E-07 7379E-04 3570E-07 8090E-07 8090E-07 8090E-07 7636E-03 4727E-03 8019E-04 5440E-07 7579E-04 3570E-07 8099E-07 8099	.2900E 01	.2436E=U3	,4727E-03	.14u3E-03	.3419E-07	.9775E-05	.6633E-07	.399CE-04
3200E 01	.3000E 01	.2909E-03	.4727E-J3	.1323E-03	•3647E-07	.1342E-04	.6252E-07	,4634E-04
3300E 01 4327E-03 4727E-03 1104E-03 4777E-07 3043E-04 490RE-07 6556E-04 3500E 01 5745E-03 4727E-03 9762E-04 5147E-07 3043E-04 490RE-07 77331E-04 3600E 01 5745E-03 4727E-03 9762E-04 5147E-07 3043E-04 4615E-07 77331E-04 3700E 01 6216E-03 4727E-03 8619E-04 5500E-07 4497E-04 4075E-07 8199E-04 3800E 01 7164E-03 4727E-03 8019E-04 5500E-07 4497E-04 4075E-07 8199E-04 4900E 01 7164E-03 4727E-03 8019E-04 5401E-07 7236E-04 3572E-07 8894E-04 4900E 01 7636E-03 4727E-03 7759E-04 5446E-07 7374E-04 3572E-07 8894E-04 4100E 01 7636E-03 4727E-03 7732E-04 5446E-07 7374E-04 3572E-07 8994E-04 4200E 01 68962E-03 4727E-03 6691E-04 5426E-07 6867E-04 3133E-07 994E-04 4300E 01 7936E-03 4727E-03 6266E-04 5386E-07 7746E-04 2967E-07 9949E-04 4300E 01 9359E-03 4727E-03 5616E-04 5386E-07 7746E-04 2967E-07 9949E-04 4300E 01 9359E-03 4727E-03 5516E-04 5386E-07 7746E-04 2767E-07 9949E-04 4400E 01 9327E-03 4727E-03 5516E-04 5255E-07 7947E-04 2762E-07 1059E-03 4500E 01 1700E-02 7600E-02 75169E-04 5255E-07 7947E-04 2762E-07 1059E-03 4500E 01 1700E-02 7600E-02 4537E-04 5255E-07 7947E-04 2608E-07 1059E-03 4500E 01 1296E-02 7600E-02 4537E-04 5255E-07 9949E-04 3681E-06 1059E-03 4500E 01 1296E-02 7600E-02 4537E-04 5169E-07 5994E-04 3681E-06 1059E-03 4500E 01 14040E-02 7600E-02 4537E-04 5169E-07 7949E-04 3681E-06 1059E-03 3229E-06 1179E-03 4500E 01 14040E-02 7600E-02 4537E-04 1138E-06 11669E-03 3229E-06 1249E-03 4500E 01 14040E-02 7600E-02 4537E-04 1138E-06 11669E-03 3229E-06 1249E-03 5500E 01 4040E-02 7600E-02 7437E-04 7437E-04 7596E-03 7796E-03 7796E-03 5500E 01 14040E-02 7600E-02 7437E-04 7776E-06 7796E-03 7796E-06 7796E-03 7796E-06 7796E-03 7796E-06 77	.31UDE 01	,33626-03	.4727E-03	.1246E-03	.4213E-07	.1745F-04	,5890E-07	.5240E-04
3400E 01	.3200E 01	.3855E-03	.4727E-03	.11/3b=03	.4521E-07	.2183E-04	.5545E-07	.5812E-04
3500E 01 3745=03 4727E=03 39752E=04 5147E=07 33643E=04 4415E=07 7331E=04 3300E 01 6216E=03 4727E=03 8619E=04 5330E=07 4697E=04 4075E=07 8199E=04 3500E 01 6691E=03 4727E=03 8619E=04 5360E=07 4697E=04 4075E=07 8199E=04 3500E 01 7664E=03 4727E=03 8019E=04 5416E=07 7236E=04 3427E=07 8199E=04 4000E 01 7636E=03 4727E=03 7799E=04 5446E=07 7333E=04 3400E 01 7636E=03 4727E=03 7799E=04 5446E=07 6324E=04 3371E=07 7331E=04 4100E 01 6109E=03 4727E=03 6691E=04 5446E=07 667E=04 3371E=07 7331E=04 4200E 01 8502E=03 4727E=03 6691E=04 5426E=07 6667E=04 3363E=07 7945E=04 4300E 01 9059E=03 4727E=03 5504E=04 5326E=07 7408E=04 2967E=07 7945E=03 4400E 01 9059E=03 4727E=03 5516E=04 5259E=07 73473E=04 2262E=07 7105E=03 4400E 01 7100E=02 7600E=02 5169E=04 5525E=07 7369E=04 3329E=06 1079E=03 4400E 01 7100E=02 7600E=02 5169E=04 5169E=07 8994E=04 3329E=06 1079E=03 4400E 01 7320E=02 7600E=02 4537E=04 1143E=06 1169E=03 3248E=06 1169E=03 3249E=06 1169E=03 324E=06 1169E=03 324E=06 1169E=03 324E=06 1169E=03 324E=06 1169E=03 324E=06 1169E=03 324E=06 1249E=03 3200E=01 3260E=02 2040E=01 3261E=04 3284E=06 1176E=03 3262E=06 2246E=03 3200E=01 3260E=02 2040E=01 3261E=04 3284E=06 1176E=03 3262E=06 2246E=03 3200E=01 3260E=02 2040E=01 3260E=03 326E=06 326E=03 326E=06 2246E=03 3300E=01 3260E=02 2040E=01 3260E=03 326E=06 326E=03	.3300E 01	.4327E-03				.2648E=04		.635ÿE≈∪4
3700E 01	.3400E 01	.4800E=03		.1033E-03	.4984E-07	.3137E-04	.4908E-07	
3700E 01		,5273E=03	.4727E-03	.9762E-04		,3643E=04	•	.7331E=04
.\$800E 01		•					•	-
.3900E 01		•		•			-	
4100E 01		•				•		•
.41U0E 01								
4200E 01			•	•		•		
4300E 01								
4400E 01							•	
4500E 01		•		•			•	•
1760E 01								
.4700E 01 .2520E-U2 .7600E-U2 .4537E-U4 .1143E-U6 .1069E-U3 .3448E-U6 .124E-U3 .3229E-U6 .2149E-U3 .1346E-U3 .3229E-U6 .2149E-U3 .3978E-U4 .107E-U6 .1346E-U3 .3229E-U6 .2462E-U3 .5000E 01 .400E-U2 .2440E-U1 .3724E-U4 .1607E-U6 .1346E-U3 .7596E-U6 .2462E-U3 .7596E-U6 .2759E-U3 .7596E-U6 .2759E-U3 .7596E-U6 .2759E-U3 .7596E-U6 .3724E-U6 .1726E-U3 .7596E-U6 .3494E-U3 .2500E U1 .8880E-U2 .2440E-U1 .3485E-U4 .2884E-U6 .1726E-U3 .7109E-U6 .3494E-U3 .5300E U1 .1092E-U1 .2040E-U1 .3501E-U4 .3696E-U6 .2655E-U3 .6653E-U6 .4825E-U3 .5500E U1 .1296E-U1 .2040E-U1 .2054E-U4 .3696E-U6 .2655E-U3 .5622E-U6 .5426E-U3 .5500E U1 .1296E-U1 .3300E-U1 .2659E-U4 .4003E-U6 .3641E-U3 .8807E-U6 .5993E-U3 .5500E U1 .1296E-U1 .3300E-U1 .2659E-U4 .4567E-U6 .3371E-U6 .3351E-U6 .5993E-U3 .5500E U1 .2490E-U1 .3300E-U1 .2333E-U6 .5740E-U6 .3952E-U3 .7700E-U6 .7640E-U3 .5500E U1 .2260E-U1 .3300E-U1 .2333E-U6 .5748E-U6 .5952E-U3 .7700E-U6 .7640E-U3 .5500E U1 .2490E-U1 .3300E-U1 .2333E-U4 .5500E-U6 .5952E-U3 .7700E-U6 .7640E-U3 .5900E U1 .2490E-U1 .3300E-U1 .2058E-U4 .5748E-U6 .5748E-U6 .5932E-U3 .7700E-U6 .7640E-U3 .5740E-U3 .5740E-U3 .5740E-U3 .790E-U1 .3500E-U1 .2700E-U1 .1760E-U4 .6007E-U6 .5624E-U3 .4806E-U6 .1023E-U2 .6000E U1 .4230E-U1 .2700E-U1 .1553E-U4 .6137E-U6 .6229E-U3 .4806E-U6 .1133E-U2 .6500E U1 .4230E-U1 .3000E-U1 .1451E-U4 .6137E-U6 .8622E-U3 .3917E-U6 .1153E-U2 .6500E U1 .4500E-U1 .3600E-U1 .1451E-U4 .6137E-U6 .9910E-U3 .490E-U6 .1135E-U2 .6000E U1 .4500E-U1 .3600E-U1 .1553E-U4 .6137E-U6 .9910E-U3 .490E-U6 .1135E-U2 .6000E U1 .4500E-U1 .3600E-U1 .1553E-U4 .6137E-U6 .9910E-U3 .490E-U6 .1238E-U2 .700E-U1 .3500E-U1 .1553E-U4 .6137E-U6 .9910E-U3 .490E-U6 .1238E-U2 .700E-U1 .3500E-U1 .1553E-U4 .6137E-U6 .9910E-U3 .490E-U6 .1238E-U2 .700E-U1 .5580E-U1 .5600E-U1 .5580E-U1 .5600E-U1 .1558E-U4 .6154E-U6 .1155E-U6 .1153E-U2 .3970E-U6 .1238E-U2 .700E-U1 .5580E-U1 .5600E-U1 .1558E-U4 .6154E-U6 .1155E-U6 .1153E-U2 .3970E-U6 .1323E-U2 .700E-U1 .5580E-U1 .5600E-U1 .5937E-U6 .1155E-U2 .700E-U1 .5300E-U1 .5000E-U1 .5000E-U1 .5000E-U1 .5000E-U1 .								
.4800E 01 .3280E-02 .7600E-02 .4249E-04 .1394E-06 .1196E-03 .3229E-06 .2149E-03 .4900E 01 .4040E-02 .7600E-02 .3978E-04 .1607E-06 .1346E-03 .7506E-06 .2759E-03 .5000E 01 .6840E-02 .2040E-01 .3724E-04 .7880E-06 .1726E-03 .7109E-06 .3494E-03 .5200E 01 .8860E-02 .2040E-01 .3261E-04 .2896E-06 .1726E-03 .7109E-06 .3494E-03 .5300E 01 .1092E-01 .2040E-01 .3261E-04 .2896E-06 .2303E-03 .6653E-06 .4181E-03 .5400E 01 .1296E-01 .3300E-01 .2854E-04 .3332E-06 .2303E-03 .6653E-06 .5426E-03 .5500E 01 .1296E-01 .3300E-01 .2854E-04 .3698E-06 .2655E-03 .5522E-06 .5426E-03 .5500E 01 .1830E-01 .3300E-01 .2659E-04 .4003E-06 .3641E-03 .8807E-06 .5993E-03 .5500E 01 .1830E-01 .3300E-01 .2490E-04 .4567E-06 .3471E-03 .8235E-06 .8848E-03 .5500E 01 .2450E-01 .3300E-01 .2333E-04 .5500E-06 .3952E-03 .7700E-06 .7640E-03 .5900E 01 .2420E-01 .3300E-01 .2333E-04 .5500E-06 .3952E-03 .7700E-06 .8365E-03 .6000E 01 .3420E-01 .3300E-01 .2038E-04 .5578E-06 .5936E-03 .77197E-06 .8365E-03 .5000E 01 .3200E-01 .2700E-01 .1905E-04 .6001E-06 .5024E-03 .5143E-06 .9081E-03 .6100E 01 .3420E-01 .2700E-01 .153E-04 .6001E-06 .5624E-03 .5143E-06 .9730E-03 .6100E 01 .3690E-01 .2700E-01 .153E-04 .6001E-06 .6229E-03 .4806E-06 .1023E-02 .6300E 01 .4500E-01 .3000E-01 .2700E-01 .153E-04 .6001E-06 .7670E-03 .7497E-06 .1135E-02 .6500E 01 .4500E-01 .3600E-01 .2700E-01 .153E-04 .6001E-06 .9294E-03 .4876E-06 .1135E-02 .6500E 01 .4500E-01 .3600E-01 .1256E-04 .6136E-06 .9294E-03 .4555E-06 .1135E-02 .6500E 01 .4500E-01 .3600E-01 .1256E-04 .6136E-06 .9294E-03 .4555E-06 .1236E-02 .6500E 01 .5940E-01 .3600E-01 .1256E-04 .6154E-06 .1114E-02 .3706E-06 .1236E-02 .7700E-01 .5940E-01 .3600E-01 .1191E-04 .6154E-06 .1114E-02 .3706E-06 .1236E-02 .7700E-01 .5940E-01 .3600E-01 .1296E-04 .6154E-06 .1114E-02 .3706E-06 .1362E-02 .7700E-01 .5940E-01 .3600E-01 .1296E-04 .6154E-06 .1114E-02 .3706E-06 .1362E-02 .7700E-01 .5940E-01 .3200E-01 .3200E-01 .5940E-01 .3200E-01 .5940E-01 .5940E-01 .5940E-01 .5960E-01			• • • • • • •	•				• -
.4900E 01 .4040E-02 .7600E-02 .3978E-04 .1607E-06 .1346E-03 .3023E-06 .2462E-03 .5000E 01 .4000E-02 .2040E-01 .3724E-04 .1787E-06 .1517E-03 .7596E-06 .2759E-03 .5200E 01 .8880E-02 .2040E-01 .3485E-04 .23846-06 .1726E-03 .7109E-06 .3494E-03 .5300E 01 .1092E-01 .2040E-01 .3261E-04 .3332E-06 .2303E-03 .6224E-06 .4025E-03 .5500E 01 .1296E-01 .3300E-01 .2609E-04 .3698E-06 .2655E-03 .5622E-06 .5993E-03 .5500E 01 .1200E-01 .3300E-01 .2609E-04 .4003E-06 .3641E-03 .8807E-06 .5993E-03 .5500E 01 .2160E-01 .3300E-01 .2490E-01 .2333E-04 .5040E-06 .3952E-03 .7700E-06 .7640E-03 .5900E 01 .2490E-01 .3300E-01 .2333E-04 .5040E-06 .3952E-03 .7700E-06 .7640E-03 .5900E 01 .2400E-01 .3300E-01 .2038E-04 .5401E-06 .3952E-03 .7700E-06 .7640E-03 .5900E 01 .2400E-01 .3300E-01 .2333E-04 .5040E-06 .3952E-03 .7700E-06 .7640E-03 .5900E 01 .2400E-01 .3300E-01 .2038E-04 .5040E-06 .3952E-03 .7700E-06 .7640E-03 .5900E 01 .2400E-01 .3300E-01 .2038E-04 .5040E-06 .5036E-03 .77197E-06 .8385E-03 .5000E 01 .2400E-01 .3300E-01 .2038E-04 .5040E-06 .5036E-03 .77197E-06 .8385E-03 .5000E 01 .3400E-01 .2700E-01 .1700E-04 .6007E-06 .5024E-03 .5143E-06 .9001E-03 .6000E 01 .3500E-01 .2700E-01 .1700E-04 .6007E-06 .6229E-03 .4806E-06 .1023E-03 .6000E 01 .3960E-01 .2700E-01 .1553E-04 .6136E-06 .6229E-03 .4876E-06 .1113E-02 .6000E 01 .4230E-01 .3000E-01 .1553E-04 .6137E-06 .7459E-03 .4490E-06 .1113E-02 .6000E 01 .4230E-01 .3000E-01 .1553E-04 .6137E-06 .9294E-03 .4876E-06 .1113E-02 .6000E 01 .5940E-01 .3000E-01 .1553E-04 .6157E-06 .9294E-03 .4876E-06 .1238E-02 .6000E 01 .5940E-01 .3000E-01 .1265E-04 .6140F-06 .9294E-03 .4876E-06 .1238E-02 .6000E 01 .5940E-01 .3000E-01 .1265E-04 .6154E-06 .1114E-02 .3700E-06 .1238E-02 .7000E 01 .5940E-01 .3000E-01 .103E-04 .6157E-06 .1114E-02 .3700E-06 .1323E-02 .7000E 01 .5940E-01 .3000E-01 .1009E-02 .5900E-01 .3000E-01 .1009E-02 .3000E-01 .1009E-02 .3000E-01 .3000E-01 .1009E-02 .3000E-01 .3000E-01 .3000E-01 .1009E-02 .3000E-01 .3000E-01 .3000E-01 .3000E-01 .3000E-01 .1009E-02 .3000E-01 .3000E-01 .3000E-01 .3000E-01 .3000E-01 .3000		•	•				•	
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.5400E 01 .1296E-01 .2040E-01 .2659E-04 .3698E-06 .2655E-03 .5522E-06 .5426E-J3 .5500E 01 .1500E-01 .3300E-01 .2490E-04 .4003E-06 .3641E-03 .8807E-D6 .5993E-U3 .5600E 01 .2160E-J1 .3300E-01 .2333E-04 .5040E-06 .3952E-03 .7700E-06 .7640E-03 .5900E 01 .2490E-01 .3300E-01 .2481E-04 .5431E-06 .4476E-03 .77197E-06 .8365E-U3 .5900E 01 .2490E-01 .3300E-01 .2086E-04 .5748E-06 .5036E-03 .6727E-06 .9081E-03 .6000E 01 .3150E-01 .2700E-01 .1905E-04 .6001E-06 .5624E-03 .5143E-06 .9730E-03 .6100E 01 .3420E-01 .2700E-01 .1780E-04 .6087E-06 .629E-03 .4806E-06 .1023E-02 .6300E 01 .3960E-01 .2700E-01 .1553E-04 .6136E-06 .6841E-03 .4490E-06 .113E-02 .6400E 01 .4230E-01 .2700E-01 .1553E-04 .6137E-06 .8642E-03 .3917E-06 .1135E-02 .6500E 01 .4500E-01 .3000E-01 .3500E-01 .1355E-02 .6000E 01 .5580E-01 .3600E-01 .1265E-04 .6157E-06 .9294E-03 .4555E-06 .1236E-02 .6000E 01 .5940E-01 .3600E-01 .1029E-04 .6154E-06 .1053E-02 .3706E-06 .1323E-02 .7700E-01 .5200E-01 .3200E-01 .5200E-01 .3200E-01 .1029E-04 .6154E-06 .1145E-02 .3706E-06 .1323E-02 .7700E-01 .5200E-01 .3200E-01 .5200E-01 .5200E-01 .3200E-01 .5200E-01 .5200E-			•	•			-	
.5500E Q1	•	•	•	_				
.5600E 01 .1830E-01 .3300E-01 .2496E-04 .4567E-06 .3471E-03 .8235E-06 .6844E-03 .5700E 01 .2160E-01 .3300E-01 .2333E-04 .5040E-06 .3952E-03 .7700E-06 .7640E-03 .5800E 01 .2490E-01 .3300E-01 .2181E-04 .5431E-06 .4476E-03 .7197E-06 .8385E-03 .5900E 01 .2420E-01 .3300E-01 .2038E-04 .5748E-06 .5036E-03 .6727E-06 .9081E-03 .6000E 01 .3150E-01 .2700E-01 .1905E-04 .6001E-06 .5624E-03 .5143E-06 .9730E-03 .6100E 01 .3420E-01 .2700E-01 .1760E-04 .6087E-06 .6229E-03 .4806E-06 .1023E-02 .6300E 01 .3960E-01 .2700E-01 .1553E-04 .6136E-06 .6841E-03 .4490E-06 .1009E-02 .6300E 01 .3960E-01 .2700E-01 .1553E-04 .6137E-06 .7455E-03 .4194E-06 .1133E-02 .6500E 01 .4230E-01 .2700E-01 .1355E-04 .6137E-06 .6077E-03 .3917E-06 .1133E-02 .6500E 01 .4860E-01 .3600E-01 .1355E-04 .6149E-06 .9294E-03 .4878E-06 .1238E-02 .6500E 01 .520E-01 .3600E-01 .1265E-04 .6149E-06 .9294E-03 .4555E-06 .1238E-02 .6500E 01 .5940E-01 .3600E-01 .103E-04 .615E-06 .1053E-02 .3970E-06 .1323E-02 .6500E 01 .5940E-01 .3600E-01 .103E-04 .615E-06 .1053E-02 .3970E-06 .1323E-02 .6500E 01 .5940E-01 .3600E-01 .103E-04 .615E-06 .1114E-02 .3706E-06 .1323E-02 .7000E 01 .5940E-01 .3200E-01 .1039E-05 .6054E-06 .1175E-02 .3075E-06 .1323E-02 .7000E 01 .6600E-01 .3200E-01 .5960E-05 .5808E-06 .1235E-02 .2870E-06 .1455E-02 .7000E 01 .6940E-01 .3200E-01 .5960E-05 .5808E-06 .1235E-02 .2870E-06 .1455E-02 .7000E 01 .6940E-01 .3200E-01 .5960E-05 .5808E-06 .1234E-02 .2676E-06 .1455E-02 .7000E 01 .6940E-01 .3200E-01 .5960E-05 .5808E-06 .1234E-02 .2676E-06 .1455E-02 .7000E 01 .6940E-01 .3200E-01 .5960E-05 .5808E-06 .1234E-02 .2676E-06 .1455E-02 .2676E-06 .14							•	•
5700E 01			•	•	-		•	*
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.6000E 01 .3150E=01 .2700E=01 .1760E=04 .6001E=06 .5624E=03 .5143E=06 .9730E=03 .6100E 01 .3420E=01 .2700E=01 .1760E=04 .6087E=06 .6229E=03 .4806E=06 .1023E=02 .6200E 01 .3690E=01 .2700E=01 .1653E=04 .6136E=06 .6841E=03 .4490E=06 .10c9E=02 .6300E 01 .3960E=01 .2700E=01 .1553E=04 .6151E=06 .7455E=03 .4194E=06 .1113E=02 .6400E 01 .4230E=01 .2700E=01 .1451E=04 .6137E=06 .7070E=03 .3917E=06 .1153E=02 .6500E=01 .3000E=01 .3000E=01 .1355E=04 .6097E=06 .8662E=03 .4876E=06 .1191E=02 .6500E=01 .3600E=01 .1265E=04 .6149E=06 .9294E=03 .4555E=06 .1234E=02 .6500E=01 .5580E=01 .3600E=01 .1181E=04 .6167E=06 .9910E=03 .4253E=06 .1282E=02 .6900E=01 .5940E=01 .3600E=01 .1103E=04 .6154E=06 .1155E=02 .3970E=06 .1362E=02 .7000E=01 .6300E=01 .3200E=01 .8960E=05 .6054E=06 .1175E=02 .3075E=06 .1397E=02 .7100E=01 .6620E=01 .3200E=01 .8960E=05 .5808E=06 .1294E=02 .2678E=06 .1455E=02 .		• •	•				•	•
.6100E 01				•			•	
.0200E 01				7		•		
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.6500E 01 .4500E-01 .3000E-01 .1355E-04 .6097E-06 .8662E-03 .4878E-36 .1191E-02 .6600E 01 .4860E-01 .3000E-01 .1265E-04 .6149E-06 .9294E-03 .4555E-06 .123dE-02 .6700E 01 .5220E-01 .3600E-01 .1181E-04 .6167E-06 .9910E-03 .4253E-06 .1282E-02 .6800E 01 .5580E-01 .3600E-01 .1103E-04 .6154E-06 .1053E-02 .3970E-06 .1323E-02 .6900E 01 .5940E-01 .3600E-01 .1029E-04 .6115E-06 .1114E-02 .3706E-06 .1362E-02 .7000E 01 .6300E-01 .3200E-01 .9049E-05 .6054E-06 .1235E-02 .2870E-06 .1397E-02 .7100E 01 .6620E-01 .3200E-01 .8960E-05 .5808E-06 .1294E-02 .2678E-06 .1455E-02							.4194E-06	
.6600E 01 .4860E-01 .3600E-01 .1265E-04 .6149E-06 .9294E-03 .4555E-06 .1236E-02 .6700E 01 .5220E-01 .3600E-01 .1181E-04 .6167E-06 .9910E-03 .4253E-06 .1282E-02 .6800E 01 .5580E-01 .3600E-01 .1103E-04 .6154E-06 .1053E-02 .3970E-06 .1323E-02 .6900E 01 .5940E-01 .3600E-01 .1029E-04 .6115E-06 .1114E-02 .3706E-06 .1362E-02 .7000E 01 .6300E-01 .3200E-01 .9609E-05 .6054E-06 .1175E-02 .3075E-06 .1397E-02 .7100E 01 .6620E-01 .3200E-01 .8960E-05 .5808E-06 .1294E-02 .2678E-06 .1455E-02	.64U0E 01	.4230E=01	.2700E=01	.1451E-04	.6137E-06	-C70F-03	3917E-U6	.1153E-02
.6700E 01 .5220E-01 .3600E-01 .1191E-04 .6167E-06 .9910E-03 .4253E-06 .1282E-02 .6800E 01 .5580E-01 .3600E-01 .1103E-04 .6154E-06 .1053E-02 .3970E-06 .1323E-02 .6900E 01 .5940E-01 .3600E-01 .1029E-04 .6115E-06 .1114E-02 .3706E-06 .1362E-02 .7000E 01 .6300E-01 .3200E-01 .9609E-05 .6054E-06 .1175E-02 .3075E-06 .1397E-02 .7100E 01 .6620E-01 .3200E-01 .8960E-05 .5937E-06 .1235E-02 .2870E-06 .1427E-02 .7200E 01 .6940E-01 .3200E-01 .5369E-05 .5808E-06 .1294E-02 .2678E-06 .1455E-02	.65UDE 01	.4500E=01	.3000E-01	.1355E-04	.6097E-06	.8682E-03	4878E-16	.1191E-02
.6800E 01 .5580E-01 .3600E-01 .11u3E-04 .6154E-06 .1u53E-02 .3970E-06 .1323E-02 .6900E 01 .5940E-01 .3600E-01 .1029E-04 .6115E-06 .1114E-02 .3706E-06 .1362E-02 .7000E 01 .6300E-01 .3200E-01 .9609E-05 .6054E-06 .1175E-02 .3075E-06 .1397E-02 .7100E 01 .6620E-01 .3200E-01 .8960E-05 .5937E-06 .1235E-02 .2870E-06 .1427E-02 .7200E 01 .6940E-01 .3200E-01 .5369E-05 .5808E-06 .1294E-02 .2678E-06 .1455E-02	.6600E 01	.4860E-01	.3600E-01	.1265E-04	.6149E-06	.9294E-03	.4555E-06	.1238E-02
.6900E 01 .5940E-01 .3600E-01 .1029E-04 .6115E-06 .1114E-02 .3706E-06 .1362E-02 .7000E 01 .6300E-01 .3200E-01 .9609E-05 .6054E-06 .1175E-02 .3075E-06 .1397E-02 .7100E 01 .6620E-01 .3200E-01 .8960E-05 .5937E-06 .1235E-02 .2870E-06 .1427E-02 .7200E 01 .6940E-01 .3200E-01 .5369E-05 .5808E-06 .1294E-02 .2678E-06 .1455E-02	.07UDE 01	.3220£=01	.3600E-01	.1181E-04	.6167E-06	.9910E-G3	.4253E-06	.1282E-02
.700E 01 .6300E-01 .3200E-01 .96J9E-05 .6054E-06 .1175E-02 .3075E-06 .1397E-02 .7100E 01 .6620E-01 .3200E-01 .896bE-05 .5937E-06 .1235E-02 .2870E-06 .1427E-02 .7200E 01 .6940E-01 .3200E-01 .5369E-05 .5808E-06 .1294E-02 .2678E-06 .1455E-02	.6800E 01							•
.7100E 01 .6620E-01 .3200E-01 .8960E-05 .5937E-06 .1235E-02 .2870E-06 .1427E-02 .7200E 01 .6940E-01 .3200E-01 .6369E-05 .5808E-06 .1294E-02 .2678E-06 .1455E-02	.6900E 01	,594UE=U1	,3660E-01	.1029E-04			• .	
.7200E 01 .0940E-U1 .3200E-01 .6309E-05 .5808E-06 .1294E-02 .2678E-06 .1455E-U2		•		• • • • •		•	•	•
.7300E 01 .7260E-u1 .3200E-u1 .7809E-05 .5669E-06 .1351E-02 .2499E-06 .1481E-02				-				• •
	.73UDE 01	,7260E-u1	.3200E-01	.7809E-05	.5669E-06	.1351E-02	,2499E-06	.1481E-U2

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.7400E 0	1 .7580E-01	.3200E-01	.7236E=05		_		•
.7500E 0:	1 .790JE-u1	.3J06E-01				.2331E-06	5 .1505E-02
.76UDE 0	1 .92006-01	,3000E-01				.2039E-06	15276-92
.7/00E 0		.3000E-01				.1902E-06	1547E-02
.7800E 0		.3000E-01			•1565E=02	,1774E-06	
.7 90 DE G	1 9100E-01	.3000E-01	_ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				
.8000E 0		.4600E-01	***************************************	1.0016 00		.1543E-06	
.8100E 0	9000=01	.4000E-01				.2207E-06	
.8200E 01			.4473E=u5		.1753E-02	2058E-06	4-4-0
.8300E 01		4600E-01	4171E-05		.1797E-02	,1919E-06	10000
.84U0E 01	.1124E 00	4600E-01	3888E-05	•4192E-06	.1939E-02	.1789E-06	10-2-5
.6>00E 01	11705 00	4500E-01	.3625E-05	.4075E-06	+1880E=02	.1668E-06	
.00UDE 01	1206E 00	.3500E-01	.3379E=05	. 5954E-06	.1920E-02	.1217E-06	
6700E 01		.36J0E-01	.3150E-05	.3799E-06		.1134E-06	
.6800E 01	12725 00	.3600E-n1	,2936E-US	.3646E-06	.1996E=02	.1057E=06	
8900E 01		.3600E-01	.2736E-05	.3497E-06	.2032E-02	9850E-07	1729E-02
.9000E 01		•3500E=u1	.2550E=05	.3351E-06	-2066E-02	.9180E-07	.1739E-u2
.9100E 01	.1350E 0u	,3000E-01	.2376E-05	.3208E-06	2099E-02	.7129E-07	1749E-02
A **	.1380E UO	.300 GE-01	.2214E-05	.3055E-05	·21305-02		•1758E=02
.9200E 01	.1410E 00	.3000E-01	.2053E-05	.2909E-06	+2160E-02	.6643E-07	.1765E=02
.9400E 01	.1440£ UU	.3000E-01	.1922E-05	.2768E-05	.21895-02	-6189E-07	•1771E=02
9500E 01	.1470± UO	.3000E-01	.1791E-05	.2633E-06	.2216E-02	•5767E-07	.1777E-02
	.1500E 00	.2000E-01	.1668E-05	.2503E-06	• 2241E = 02	.5373E-07	.1783E-02
.9600E 01	.1520£ GU	.2000E-G1	.1524E-05	.2362E-06	•5560E-05	.3337E-07	.1788E=02
	.1540E UO	.2vûUE-01	14485-05	.2229E-06	.2239E-02	,3108E-J7	.1791E-02
	.1560E 00	.2000E-01	.1340E-05	.2104E-06	.2310E=02	.2895E-07	.1794E-02
	.1580E UU	,2006E-01	.12>6E=05	1984E-06	.2331E=02	,2697E-n7	.1797E=U2
	.1600E 00	.1206E-01	.117uE-05	.1872E-06	.2350E=02	.2512E-07	.1799E-02
	,1612E CU	.1200E-01	.10byE-05	.1756E-06		.1404E-67	.1802E-02
.1020E 02	.1624E UU	.1200E-u1	.1014E-05	.1648E-06	.2368E-02	.1307E-07	.1803E-02
.1030E 02	,1636E GC	.1200E-01	. 9447E-06	.1546E-06		.1217E-07	.1004E-02
.1040E 02	.1648E 00	.1200E-01	.8797E-66	.1450E-06	.2401E-02	•1134E-07	.1505E⇔02
.1050E 02	.1660E VU -	.3996E-02	.8191E-06	.1360E-06	•2416E=02	.1056E-07	.1807E-02
.1060E 02	.1056E UU -	.4600E-02	.7627E-06	.1263E-06	.2430E+02	3273E-08	.1808E=02
.1070E 02	.10525 00 -	.4u00E-02	.71U1E-06	•1173E-06	-2443E-U2	3051E-08	.180/E-J2
.1080E 02	.1643E 00 -	.4000E-62	.6011E-06	.1089E-06	.2:55E=02 .	-,2840E-C8	.130/E-U2
.1090E 02	.1644E UO -	.4000E-02	.6154E-06	.1012E-06	.2467E-02	-,2644E-J8	.1807E+u2
.1100E 02	.1640E 60 -	.1400E-01	.5729E-06	.9396E-07	-2477E-02	• • 2462E = C6	.1806E-U2
.1110E 02	,1626t UO -	.1400E-01	.5333E-06	.8672E-07	.2487E-02 .	••E019E=68	.1806E=92
.1120E 02	.1012E UU -	.1400E-01	.4965E=06		.2496E-02 -	••7467E=03	.1805E-02
.1130E 02	.1598E 00 -,	.140JE-01	.4621E-06	.6003E=07	.2504E-02 -	.6950E⇒û8	•1605E-02
.1140E 02	.1584E Du -,	.1400E-01	.4301E-06	.7384E-07	.2512E-02 -	••6469E-ŋd	.1604E=02
1150E 02	.1570± UG -	2000E+01	.4003E=06	.6813E-07	.2519E-02 -	.6022E⇒¢8	.1003E-32
.1160E 02	•1>50E 00 - .	2000E-n1	.3726E=06	.0285E-07	.2525F-02 -	•8006E-08	.1903E-02
•1170E 02	.1530E UO	2000E-01	.3468E=U6	5775E-07	•2532E-02 -	.7452E-08	.1002E-02
.1180E 02	•1>1uE uu =.	2160F=01	.3227E-06	.5305E-07	.2537E=02 -	,6935E -08	.1301E-02
.1190E 02	.1490E 00 -	22.15	.3003E-06	4873E-07	.2542E-02 -	.6454E-08	.1801E-U2
.1200E 02	•1470E GU	1000E-01	.2795E=06	.4475E-07	•2347E-02 -	.6006E=98	.1800E-02
.1210E 02	.1460E UG	1000E-a1	.2659E=06	4108E-07	.2551E-02 -	.2796E-08	.1799E-02
.1220E 02	,145UE 00	10008-01	.2420E=06	.3797E-07	.2555E-02 -	.2600E-08	.1799E-02
.1230E 02	.1440E UU	4 3 3 0 5 4	.2251E=06	.3509E-07	,2>59E=02 -	.2420E-08	.1799E=J2
	•	· - · - • •	1-575-00	•3242E=07	.2562E-02 -	.2251E-08	.1799E-U2

£,	SIG	SIGP	PHI .	SIG*PHI	F	SIGP*PHI	G
.1240E 02	.1430£ UU	1300E-01	.2095E-06	.2996E-07	.2565E-02	2095E-08	.1799E=02
.12>0E 02	.1420E 0U	-,4002E-02	.1949E=06	.2768E-07	.2568F=02	-,7601E-09	.179∂E=02
.1260E 02		-,4000E-02	.1813E-06	.2568E-07	.2571E-02	-,7254E-09	.1798E-U2
.12/0E 02		4000E-02	.1007E=06	.2382E-07		-,6749E-09	.1798E-02
.1280E 02		4UUUE-U2	.1570E-06	.2210E-07	.2575E-02	-,6278E-09	.1740E-02
.1290E 02	•	-,4000E-02	.146UE-06	.2050E-07	.2078E-02	5841E-09	.179aE≈U2
.1300E 02	.1400 = 00	-,9997E-02	.13>8E-06	.1902E-07	.2580E-02	-,1356E-08	.1798E-02
.1310E 02	.1390E 00	1000E-01	.1264E-00	.1756E-07		-,1264E-08	.1798E-02
1320E 02	.1380c UU	-,1000E-51	.1175E-06	.1622E-07		1175E-08	.1798E-02
.1330E 02	.1370E UU	10u0E-61	,1U93E=36	.1498E-07		-,1093E-08	.1790E=02
1340E 02	,1360E UU	1000E-01	.101/E-06	.1383E-07		1017E-08	.1798E-U2
.1350E 02	,1350E 00	-,1000E-01	.9459E-07	.1277E-07		-,9459E-19	.1797E-02
.1360E 02	.1340E UU	1000E-01	.6798E-U7	•1179E-07		E798E-19	.1797E-02
.1370E 02		1000E-01	.61635-67	.1088E-07		-,8183E-09	.1797E-02
.1380E 02	• -	1000E-01	.7611E-U7	.1005E-07		-,7611E-09	.1797E-U2
.1390E 02		-,1600E-61	.7078E-07	.9273E-08		7078E-09	1797E=U2
.1400E 02		1800E-01	.65J3E-U7	.655dE-08		1165E-08	.1797E=02
.1410E 02		1600E-01	.6122E-07	.7849E-08		-,1102t-)8	1797E-32
.1420E 02	V	1800E-01	.5693E-07	.7196E-08		1025E-08	.1797E=02
.1430E 02		1600E-01	.5294E-07	.6597E-08		-,9530E+09	.1797E=02
.1440E 02		1600E-01	.4923E-07	.6046E=08	.2596E=02		.1797E-U2
,1450E 02	,1210E 00	-,2200E-01	4579E-07	.554GE-08		-,1007E+08	.1796E=02
.1460E 02	,11886 00	2200E-01	4257E-07	.5058E-08	1239/E=U2	-,9366E-09	.1796E=02
1470E 02		-,226UE-U1	.3959E=07	.4616E-08		8098E-09	.1796E-02
.1480E 02		-,2200E-01	.3631E=07	.4211E=08		-,7529E-09	.1795E-02
.1490E 02	,1122E 60	-,2200E-01	34226-07	.3840E-08		-,6365E-09	1796E-U2
.1500E 02		2000E-01	.31 02E = 07	.3195E-08		5917E-09	.1795E-02
.1510E 02	10000 00	2000E-01	.2959E-07	.2916E-08		-,5502E-39	1796E-02
.1>20E 02	1000E 00	2000E-01	.2558E-07	.2660E=08		-,5115E-09	.1796E-U2
.1530E 02		-,2000E-01	.237eE=07	.2425E-0 8		-,4756E-09	.17 46E-02
.1540E 02		2060E-01	.2211E-07	.2211E-05	.260UE=02	-,3096E-09	.1796E-U2
.1550E 02		1400E-01	.2055E=07	.2026E-08	.2600E+02	2677E-09	.1796E-02
.1560E 02		1400E-01	.1911E-07	.1857E-08		-,2675E-09	.1796E-02
.1580E 02		14J0E-01	1776E-07	1701E-08	.2600E=02	2487E-09	.1796E-U2
.1590E 02		1400E-01	.1651E-07	.1559E-08	.2601F-02	2311E-09	.1796E-92
.1600E 02		1400E-01	1535E-07	.1427E-08		-,2149E-09	1796E-U2
.1610E 02	.9160F-01	1400E-u1	.1427E=07	.1307E-08	.2601E=02	1997E-09	.1795E-02
1620E 02	.9420E=U1	1400E-01	.1326E-U7	.1196E-08		1857E-09	.1796E≖U2
.1630E 02		14JUE-01	.1233E-07	.1095E-08	.2601E-02	1726E-09	.179bE-U2
1640E 02		-,1400E-01	.1146E-U7	.1002E-08	.2601E-02	-,1604E-09	.1796E-02
.1650E 02		1000E-01	.1065E=07	.9160E-09	.2501E-02	-,1065E-09	.1796E-02
1060E 02		1000E-01	.9900E-05	.8415E-09		-,9900E-10	.1746E-02
.1670E 02		1000E-01	.9202E=08	.7730E-09		-,9202E-10	.1796E-02
.1680E 02		1000E-01	.8553E-08	.7099E-09	.2602E-02	-:8553E-10	.1796E-02
1640E 05	.8200E-01	1000E-11	.7949E=08	.6518E-09		-,7949E-10	.1790E-02
.1700E 02		1000E-01	,73doE⇔U∂	.5984E-09		-,7368E-10	.1795E-02
.1710E 02	.3000E-01	1000E-01	.6867E+08	.5493E-09		-,6867E-10	.1796E=02
.1/20E 02		1000E-01	.6582E-08	.50425-09		-,6382E-10	.17y6E=U2
.1730E 02	.7806E-01	-,1000E-01	.5931E-03	.4626E-09	.2002E-02	-,5931E-10	.1796E=02

Ė.	21 G	SIGP	PHI	SIGOPHI	F	SIGP•PHI	c
.1740E 02 .1750E 02 .1760E 02 .1770E 02 .1780E 02 .1790E 02 .1810E 02 .1810E 02 .1820E 02 .1850E 02 .1850E 02 .1850E 02 .1860E 02 .1870E 02 .190E 02 .1920E 02 .1920E 02 .1930E 02 .1940E 02 .1940E 02 .1960E 02 .1970E 02 .1980E 02	7600E-U1 7520E-01 7440E-01 7360E-U1 7200E-01 7200E-01 7120E-U1 7040E-U1 6880E-U1 6880E-U1 6500E-U1 6500E-U1 6500E-U1 6380E-U1 6380E-U1 6480E-U1 6500E-U1 6500E-U1 6380E-U1 6380E-U1 6380E-U1 6380E-U1	8000E-02 8000E-02 8000E-02	2 .5123E-64 .4761E-03 .4424E-08 .4111E-08 .3821E-03 .3550E-03 .3299E-08 .3006E-03 .2647E-08 .2406E-08	.4244E-09 .3893E-09 .3580E-09	.2602E-02 .2602E-02 .2602E-02 .2602E-02 .2602E-02 .2602E-02 .2602E-02 .2602E-02 .2602E-02 .2602E-02 .2602E-02 .2602E-02 .2602E-02	5512E-10 4099E-10 3809E-10 3539E-10 3289E-10 3056E-10 2639E-10 2639E-10 2453E-10 2279E-10 2118E-10 1476E-10 1371E-10 1184E-10 1100E-10 1100E-10 1022E-11 8197F-11 8197F-11 8197F-11 8197F-11 8143E-11 8765E-11 8765E-11	G .1796E-02 .1795E-02 .1795E-02 .1795E-02 .1795E-02 .1795E-02
			=				

CU-63(N, ALPHA)CO-60 U-235 FISSION SPECTRUM



Ė	5 I G	SIGP	PHI	SIG*PHI	F	SIGP•PHI	G
.5600E 01	.33952-03	.2395E-02	.2496E-04	04775 00	m.,		
.5700E U1				.8473E=08	•5667E-06	.5977E-07	.891JE-05
.5800E 01			,	.1351E=07	,1674E-05	.5588E-07	.1469E-04
5900E 01		.6045E-02		.2249E-07	.3370E-05	.1449E=06	.2490E-04
.60U0E 01		.824UE-02	.1965E=04	3456E=07	.6243E-05	.1355E-06	.3e91E-04
.6100E 01		8240E-02	.17auE-04	.4496E-07	.1024E=04	1570E-06	•52J3E•04
.6240E 01		8240E-02	1663E=04		.1534E-04	+1467E-J6	.6720E-U4
.63U0E 01		.8620E-02	.1553E-04	.6665E=07	.2153E=04	.1370E-06	.8133E=04
.64U0E U1		.8620E-02	.1451E-04	.6289E-07	.2863E+04	.1339E=96	.9493E-u4
.6500E 01	6575E-U2	.8124E-02	.13>5E-04	.8909E-07	.3656E=04	,1251E-06	.1077E=03
.66U0E 01	.73872-02	8124E-U2	.126>E=04	.9347E-07	.4517E=04	.1101E-06	.1199E-03
.6700E 01	. 6200E-02	9124E-02	.11 o1E-04	.9687E-07	5431F=04	,1028E-06	.1306E-03
.68U0E 01	.8944E-GZ	.6760E-U2	.1103E-04	.9864E=07	.6384E=94	9597E-07	.1405E-U3
.6900E 01	.9620E-U2	.676CE-G2	.1029E-04	.9904E-07	.7364E=04	.7455E-07	.1490E-J3
.7000E 01	.1030E-01	.4964E-U2	.9609E-05	.9893E-07	.8353E-04	.6959E-07	.1562E-03
.7100E 01	.1079:-01	.4964E-C2	.8968E-05	.9678E-07	,9343E=04	4770E-U7	.1629E-03
.72U0E 01	1129£-01	.4964E-U2	.8369E=35	.9447E=07	10326-03	,4452F-07	.16/5E-03
.7300E 01	.1176E-01	.4496E-02	.7809E-05	.9185E-07	1128E=03	.4154E-07	.171dE=03
.7400E 01	.12216-01	.4496E-02	.7236E-05.	.8897E-07	.1221E-03	.3511E-07	.1756E-03
.7500E 01	.1266E-U1	.5796E-u2	.6797E-U5	.8606E-07	13115-03	,3276E-07	.1790E-03
.7600E 01	.1324E-U1	5796E-02	.6341E=05	.8395E-07	,1399F-03	.3939E-07	.1822E-03
.7700E 01	.1362E=01	.5796E-02	5914E-05	.8174E=07	•1484E=03	.3675E=07	.1860E-03
7800E 01	1455E-01	.8864E-02	.5516E-05	.8028E-07	•1567E=03	.3428E-07	.1696E=63
.7900E 01	1544E-U1	8564E-02	.5144E-05	.7943E=07	1648E=03	.4689E-07	.1937E-03
.8000E 01	.1633E-01	1304E-01	4797E-05	.7832E-07	.1727E-03	.4560E-07	.1985E-U3
.8100E 01	.1763E-U1	.1304E-01	4473E-05	.7886E-07	1906E-03	.6254E-07	.2029E-03
.8200E 01	1593E-01	.1304E-01	4171E-05	.7897E-07	,1885E-03	.5831E-07	.2089E-03
.8300E 01	.2037E-U1	.1562E-01	3888E-05	.7919E-07	.1964E=03	,5437E=07	.2146E=03
.8400E 01	2193t-01	,1562E-U1	3625E-05	.7949E-07	.21226-03	.6074E-07	.2203E-u3
.8500E 01	.2349E-01	.1596E-01	.3379E-05	.7938E-07	.2202E=03	.5662E=07	.2262E-03
.8600E 01	.2509E-01	.1596E-01	.3150E-05	.7902E-07	.2281E=03	,5393E-07	.2317E-u3
.8700E 01	.2668E-01	.1596E-01	2936E-05	.7833E-07	.2360E-03	.5027E-07	.2369E=03
.8800E 01	,2818E-01	.1405E-01	.2736E-05	.7711E-07	.2437E-03	4686E=07	.2417E-03
.8900E 01	,2959E-01	.1405E-01	.2550E-05	.7545E-07	2514E-03	.3844E=ŋ7	.2460E-03
.9000E 01	.3099E-01	.1050E-01	.2376E-05	.7364E-07	2588E-03	.3582E-07	.2497E-U3
.9100E 01	.3204E-Ú1	.1050E-01	.2214E=05	.7095E-07	.2661E=03	.2494E=07	.2531E-03
.9200E 01	.3309E=01	.1050E-01	2063E-05	.6827E-07	.2730E=03	.2324E-07	.2555E=03
.9300E 01	,34U0E-U1	.7748E-U2	.1922E-U5	.6536E-07	.2797E=03	.2165E-07	.2578E=03
.9400E U1	.3478E-01	.7748E-02	.1791E-05	.6228E-07	.2561E=03	.1489E=07	.2596E-03
.9500E 01	.3555£-U1	.64u8E-u2	.1666E-05	.5931E-07	.2922E=03		.2610E-03
.9600E 01	.3619E-01	.6408E-02	.1554E-05	.5625E-07	.2979E=03	•1069E - 07	.2624E=03
.9700E 01	,3683E-U1	.6400E-62	1443E-85	.5332E-07	3u34E=03	.9959E=18	.2634E=03
.9800E 01	.3748E-01	.6454E-02	.1340E-U5	.5054E-07	.3986E-03	.9277E-08	.2644E-33
.9900E 01	38132-01	.6484E-02	.1256E-05	.4789E=07	.31355-03	.8743E-08	.2653E-03
.1000E 02	.3878E-01	.7564E-02	.117UE-05	.4536E-07	.3182E=03		.2661E=03
.1010E 02	.3953E-U1	.7564E-02	.1039E-05	.4307E+07	.3226E-03	.8847E⇒08	.2669E=03
.1020E 02	.4029E-01	.7564E-J2	.1014E-05	4087E-07	.3268E=03	,8240E=03	.2677E-U3
.1030E 02	.4107c-01	.8056E-02	9447E-06	3880E-07	.33085-03	.7674E=08	.2605E-03
.1040E 02	.4188E-01	.8056E-u2	8797E-06	.3684E-07	.3346E=03	.7087E=08	.2693E=03
.1050E 02	,4266E-01	.7544E-02	.8191E-06	.3496E-07	.3381E=03	.6179E=08	.270uE=03
					100015-00	•01/ AE #08	.2707E-03

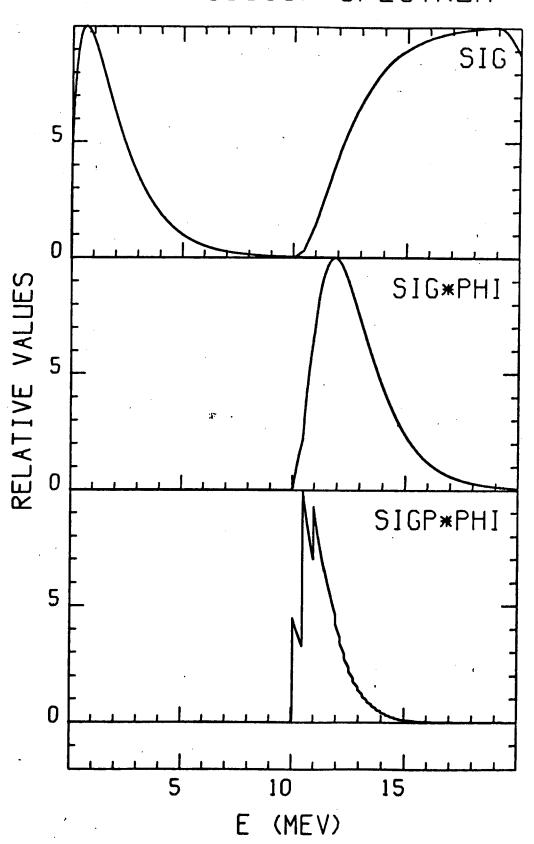
t .	SIG	SIGP	РНІ	S10=0111	_		
	-	•	£ 11 \$	SIGOPHI	F	21Gb*bHI	G
.1060E 02	,	.7544E-02	.7627E-06	.3313E-07	,3415E-03	.5753E-08	.2713E-03
.1070E 02	.4419E=01	,7544E-02	.71u1E-06	.3138E-07	.3448E=03		.2719E-03
.1080E 02	,4407E-U1	.6u4ûE-02	.6611E-06	.2966E-07	.3478E-03	. ,	.27235-03
.1090E 02	,	,6040E-02	.6154E-06	.2799E-07	-3507E-03		.2727E=03
.1100E 02	.460bE-01	.3201E-02	.5729E-06	.2640E-07	.3534E=03	. ,	.2731E=03
.1110E 02	,4640E=01	.3200E-12	.5333E=06	.2474E-07	3560E-03		.2733E=03
1120E 02	.46/2E=01	.3200E-02	.4965E-06	.2319E-07	.3584E=03		.2734E-03
.1130E 02	4676E-01	-,23u0E-02	.4621E=36	.2161E-07	.3606E=03	-,1063E-08	.2734E-03
.1140E 02		2300E-02	.4301E-06	.2001E-07	.3627E=03	9893E-09	.2733E-03
.1150E 02	.4630E=01	-,9142E-02	.4003E-06	.1854E-07	.3546E-03		.2732E-03
.1160E 02	4539E=U1	-,9144E-02	.3726E-06	.1691E-07		3407E-08	27298-03
.1170E 02	4447E-01	9144E-U2	.3460E=06	.1542E-07		3171E-08	.2725E-03
.1180E 02	,4348E-U1	1066E-01	.3227E-06	.1403E-07	.3695E-03	-,3439E-08	.2722E-u3
.1190E 02		1066E-01	.3003E-06	.1274E-07		-,3200E-08	.2719E=03
.1200E 02		6625E-02	.2795E-06	•1156E-07	.3720E=03	1852E-08	.2716E-03
.1210E 02	40095-01	-,6624E-02	.2600E-06	.1058E - 07	.3731E-03	1723E-08	2714E=03
.1220E 02	46036-61	6624E-02	.2420E-06	.9685E-08	.3741E-03	1603E-08	.2712E-03
.1230E 02	.3950E-01	-,2764E-02	.2251E-06	.6906E-08	.3751E-03	-,6223E-U9	.2711E-u3
1240E 02		2764E-02	.2095E-06	.955AE-08		5790E-09	.2711E=U3
.1250E 02		5168E-03	.1949E-06	.7603E-0a	•3767E=03	10U7E-09	.2710E-03
	3599E=01	5160E-03	.1613E-06	.7064E-08	.3774E-03	-,9357E-10	.2710E-93
.1270E 02		516UE-U3	.1687E-06	.6563E-08	.3781E-03	8706E-10	.2710E-03
.1290E 02	.3888E-U1	.1200E-03	.1570E-06	.6103E-08	.3788E=03	.1883E-10	.2710E=03
.1300E 02	.3889E=01	.1200E-03	.140GE-06	.5679E-08	.3794E=03	.1752E-10	.2710E-03
.1310E 02	1988E-01	5717E-03	.1355E-06	.5285E-08	.37 99E - 03	7766E-10	.2710E-03
.1320E 02	130035-01	-,5720E-US	.1264E-06	.4909E-08	.3804E-03	7228E-10	.2710E-03
.1330E 02	130/75-01	5720E-03 1472E-02	11756-06	.4560E-09	.3809E-03	6723E-10	.2710E-U3
.1340E 02	345401	-,1472E-02	.1093E-06	.4230E-08	.3813E-03	1609E-09	.271UE-03
1350E 02		-,2292E-02	,1017E-06	.3920E-08	.3917E=03	1497E-09	.2710E-U3
1360E 02	.36175-01	2292E-u2	.9459E-07	.3632E-08	.3321E-03	-,2168E-09	.2709E-03
,1370E 02	.3794E=01	2292E-02	,8798E=07	•3358E-08	.3825E-03	2017E-09	.2709E=03
.1380E 02	3776E-01	- 87205-03	.8163E-07	.3104E-08		-,1876E-09	.27U9E-03
.1390E 02	3769E-01	8720E-03	.7611E=07	.2875E-08	.3831E=03	6637E-10	.2709E-03
.1400E 02	3760E-01			.2668E-08	+3834E=03	-,6172E-10	.2709E=03·
.1410E 02	.3702£-01		.5503E-07	.2475E-08	.3836E-03	3856E-09	.2709E-U3
.1420E 02	,3643E-01		.6122E=07	.2266E-08	.3438E-03	-,3588E-09	.2708E-03
1430E 02	3592E-01	4288E-02	.5693E-07	.2074E-08	.3841E-03	-,3336E-09	.2708E-03
1440E 02	3550E-U1	4238E-02	49235-07	.1902E-08		2270E-09	.2708E-03
.1450E 02	3507E-01			•1748E-08		-,2111E-09	.2708E•u3
.1460E 02	34592-01	4HODE-02	.4576E-07 .4257E-J7	.1605E-08	.3346E=03	-,2197E-09	.2707E-03
.1470E 02	3411E-01	4800E-02	.3959E-07	.1472E-08	.3048E=03	-,2043E-09	.2707E-03
.1480E 02	.3361E-U1		.3681E=07	.1350E-08	13849E=03	-,1900E-09	.2707E-03
.1490E 02	.3308E-01	5232F-n2	.3422E-07	.1237E + 08		1926E-09	.2707E-03
.1500E 02	.3256E-01		.3162E=07	.1132E-08		1791E-09	.27u7E-03
.1510E U2	3200E-01	.5564F=02	.2959E-07	.1036E-08		1777E-09	.2706E-U3
.1520E 02	3144E-U1		.2751E-07		*30545-03	-,1652E-09	.2706E-03
.1530E 02	3u87E-01		.2556E-07	.8649E=09		1536E-09	.2706E-03
.1540E 02	3029E-01		.2378E-07			-,1495E-09	.2706E-03
1550E 02	2470E-01		.2211E-07	.7201E-09		1393E-09	.2706E-03
· -	, - ,	1-40	******	.6566E-09	. 3 83/F=03	-,1328E-09	.2706E-03

CU-63(N,ALPHA)CU-6U U-235 FISSIEN SPECTRUM

E	210	SIGP	PHI	SIG*PHI	F	SIGP*P4I	G
.1560E 02		16008E-02	.2055E-07	.5981E+09	.34570-03	1235E-09	
•1570E 02	,2850E-U	L6008E-02	.1911E-07	.5445E=09		-,1148E-09	+2706E+33
.1500E 02	.2790£=0:	1 -,6072E-02	1776E-07	4955E-09	.39502003	1078E-09	.2705E-03
.1590E 02	,2729Ŀ - 01	16172E-u2	1651E-07	4506E-09	.3850=-03	1003E-09	.2705E-03
.16VOE 02	.2668E-01	1 -,6044E-U2	.1535E-07	4095E-09		-,9277E-10	.27u5E-03
.1610E 02	,2608E-U1	L6044E-02	.1427E-07	.3721E-09	.3360E=03	8623E-10	.2705E-03
.1620E 02	.2547E=61	L -,6044E-02	1326E-07	.3378E-09	33405-03	-,8016E-10	.2705E-u3
.1630E 02	.2468E-01	-,5916E-02	,1233E=07	.3067E-09	32605-07	-,7293E-10	.2705E-03
.1640E 02	.24286-01	-,5916E-02	.1146E=07	.2783E-09	38415-03	-,6779E-10	.2705E-03
.1650E 02	.2369E=U1	5692E-02	.1065E-07	.2523E-09	.3861E-07	-,6063E-10	.2705E-03
.1660E 02	.2312E-01	5692E-02	.9900E-08	.2289E-09	38415-07	-,5635E-10	.2705E-03
•1670E 02	.2255E-U1	5672E-02	.9202E=08	2075E-09	130012-03	-,5238E-10	.2703E-03
.1680E 02	.2200E-01	-,5372E-02	.6553E-08	.1882E-09	.33625-03	-,4595E-10	.2705E-03
.1690E 02	,2146E-U1	5372E-02	.7949E-UB	.1706E-09	18625-03	-,4270E-10	.2705E-03
.1700E 02	.2093E-G1	4976E-02	.7368E-08	.1546E-09	.38625-03	-,3677E-10	.2705E-03
.1710E 02	,2043E-u1	-,4976E-02	.0867E-08	.1403E-09	.33625-03	-,3417E-10	.2704E-03
.1720E 02	.1993E-01	-,4976E-G2	.6382E-08	.1272E-09	.38625-03	-,3176E-10	.2704E-U3
.1730E 02	.1945E-01	4604E-02	.5931E-08	.1154E-09	18625-01	2731E-10	.2704E=03
.1740E 02	,1099E-01	4604E-02	.5512E-08	.1047E-09	39635-03	2538E-10	.2704E-03
.1750E 02	.1853E-01	-,4272E-02	.5123E-C8	.9493E-10	38635-03	2189E-10	.2704E=03
.1760E 02	.1810E-01	-,4272E-02	.4761E-U8	.6619E-10	39635-03	-,2034E-10	.2704E-03
1770E 02	,1768E-U1	4272E-02	4424E-00	.7820E-10	38435-03	-,1890E-10	.2704E-03
.1780E 02		-,3y92E-02	4111E-08	.7098E-10	38435-03	1641E-10	.2704E-03
.1790E 02	1686E-U1	3992E-02	.3821E-08	.6443E-10	10703E=U3	15755 10	.2704E-03
.18U0E 02	.1647E-01	-,3748E-02	.355UE-U6	.5846E-1U	39430-03	-,1525E-10	.2704E-03
1810E 02	.1609E-01	- 374dE-02	.3299E-08	.5308E-10	38635-07	-,1331E-10	2704E-03
.1820E 02	.1572E-C1	-,3748E-02	.3066E=0d	.4818E-10	39435 03	-,1237E-10	.2704E-03
.1830E 02	1535E-01	3552E-02	.2849E-08	.4373E-10	13000E=U3	-,1149E-10	.2704E=03
.1840E 02	.1500E-01	3552E-02	.2647E-08	.3969E-10	13475-07	1012E-10	.2704E-03
.1850E 02	.1464E=U1	-,3404E-02	.2460E-U8	.3601E-10	7047	-,9403E-11	.2704E-03
.1860E 02	.1430E=01	3404E-02	.2206E-08	.3268E-10	7947C 07	8373E-11	.2704E=03
.1870E 0.2	.1396E-01	3404E-02	.2124E-08	·2964E-10	3047C 07	-,7780E-11	.27U4E=03
.1880E 02	.1362E-01	-,3292E-02	.1973E-08	.2688E-10	**************************************	7229E-11	.2704E-03
.1890E 02	.1330E-01	3292E-02	.1033E=U8	.2438E-10	1000E=03	-,6496E-11	.2704E-03
.1900E 02	.1297E-01	-,3232E-02	.17u3E-06	.2209E-10	13863E=03	6036E-11	.2704E-03
.1910E 02	.1264E-01	3232E-02	.1583E-08	.2001E-10	.3963E-03	-,2506E-11	.2734E=03
.1920E 02	1232E-01	-,3232E-02	.1471E-08	1812E-10	.3863E-03	-,5115E-11	.2704E-C3
.1930E 02	.1200E-01	3208E-02	.1366E-C8		.3863E-03	• 4753E-11	.2704E-03
.1940E 02	.1168E-01	3208E-02	.1269E=08	.1639E-10 .14825-10	.3863E=03	-,4383E-11	.2704E-03
.1950E 02	.1136E-01	-,3236E-02	.1179E=08	.14825-10 .1339E-10	.3863E-03	-,4072E-11	.2704E-03
.1960E 02	.1103E-01	-,3236E-02	.1096E-08		.3863E-03	3816E-11	.2704E-03
.1970E 02	.1071E=01	3236E-U2	.1018E=G8	.1209E=10	.3863E-03	-,3546E-11	.2704E=03
.1980E 02	1038E-01	-,3307E-02	.9457E-09	.1090E-10	.38635-03	3294E-11	.2704E-U3
.1990E 02		3307E-02	.8766E-09	.9818E-11	-3864E-03	3128E-11	.2704E-03
		,500,4 02	*0.005-03	.6830E-11	.3864E=03	2906E-11	.2704E-03

SPECTRUM AVERAGE CROSS SECTION = .3864E-03

CU-65(N, 2N) CU-64 U-235 FISSION SPECTRUM

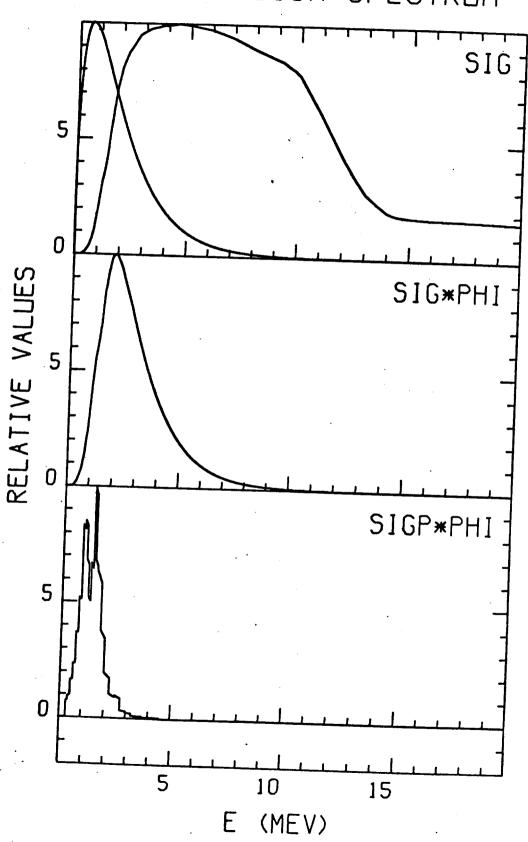


E	SIG	SIGP	PHI	SIG*PHI	F	0100-0-1	
<u> </u>	V. V	3101	en.↓	SIGABUI	P	SIGPOPHI	G
.1010E 02		.7859E-01	.1089E-05	.3425E-08	.7086E-07	.8561E-07	.3561E-05
.1020E 02	,	.7859E-01	,1014E-U5	.1116E-07	.8136E-06	.79735-07	1132E-04
.1030E 02	,	.7859E - 01	.9447E-06	.1782E-07	.2274E-05	.7425E-07	1951E-04
.1040E 02	.2672E-01	.7859E-01	.8797E-06	.2351E-07	.4351E-05	6914E-07	.2669E-J4
.1050E 02	.3458E-U1	.2396E 00	.8191E-06	.2832E-07	.6952E-05	.1963E=36	.3348E-04
.1060E 02	.5854E-U1	.2396E 0U	.7627E-U6	.4465E-07	.1063E-04	.1828E-06	.5242E-04
.1070E 02	.8251E-01	,2396E 00	.7101E-06	.5859E-07	.1>82E-04	.1702E-06	.7005E-04
.1080E 02	1065E 00	,2396E UO	.6611E-06	.7039E-07	.2229E-04	,1584E-06	.8647E-04
.1090E 02	.1304E 00	.2376E 00	.6154E-06	.8028E-07	.2984E-04	.1475E-06	.1017E-03
.1100E 02	,1544E 00	.3180E 00	.5729E-06	.8846E-07	.3830E-04	.1822E-06	.1150E=03
.1110E 02	.1862E 00	.3180E 00	.5333E-06	.9931E-07	.4771E-04	.1696E-06	.1336E=03
.1120E 02	,2180E 0G	.3180E 00	.4965E-06	.1082E-06	•5H10E=04	.1579E-06	.1500E-03
	.2498E 00	.3180E 00	.4621E-06	•1154E-06	.6930E-04	.1469E-06	.1652E-03
	.2816£ 00	3180E 00	.4301E-06	•1211E=06	•8115E-04	.136 BE-06	.1794E-83
.1150E 02	,3134E 00	.3240E 00	.4003E-06	1255E-06	.9349E-04	.1297E-06	.1926E=03
.1170E 02	,3458E 00	.3240E 00	3726E-06	.128 BE -06	.1062E=03	,1207E+06	.2051E-03
.1180E 02	.3782E 00	.3240E 00	.3460E-06	.1311E-06	.1192E-03	.1123E-06	.2167E-03
.1190E 02	.4106E 00	,3240E 00	.3227E-06	.1325E-06	.1324E-03	.1046E-06	.2276E-03
.1200E 02	.4430E 00	.3240E 00	.3003E-06	.1330E-06	.1457E-03	,9730E-07	.2376E-03
.1210E 02	5050E 00	.2965E 00	2795E-06	.1329E-06	.1590E-03	.8286E-07	.247JE-U3
.1220E 02	.5347E UO	• • • • • • •	.260 uE=06	.1313E-06	.17225-03	.7710E-07	.2550E+u3
.1230E 02	5623Ë 0U	.2760E 00	,2420E=06	.1294E-06	.1652E-03	.6679E-07	.2624E-U3
1240E 02	.5899E 00	.2560E 00	.2251E=06	.1266E-06	1980E-03	,6214E-07	.2689E-u3
.1250E 02	.6155E UO	.2560E 00	.2095E-06	•1236E-06	.2106E-03	,5363E-07	.2749E-03
.1260E 02	.6411E UO	.2370E 00	.1813E-06	.1200E-06	•2227E=03	.4990E-07	.2800E-03
.1270E 02	.6648E 00	.2370E 00	.1687E-06	•1163E-06 •1122E-06	,2345E-03	,4298E-07	.2845E-U3
1280E 02	6885E 00	.2195E 00	.1570E-06	.1081E-06	.2460E=03	.3998E-07	.2890E-03
.1290E 02	.7104E 00	.2195E 00	.146UE-06	.1037E-06	.2570£ - 03 .2676E - 03	.3445E-07 .3205E-07	.2926E-03
.1300E 02	7324E 00	.2020E 00	.1358E-96	.9949E-07	.2777E-03	,2744E=07	.2962E-03
.1310E 02	.7526£ 00	.2020E 00	.1264E-06	9510E-07	.2874E-03	2552E-07	.2993E-03
.1320E 02	.7728E 00	.1655E 00	.1175E-06	.9084E-07	2967E=03	.2180E-07	.3044E=03
.1330E 02	,7913E 00	.1855E 00	.1093E-06	.8652E-07	3056E=03	2028E=07	.3045E=03
.1340E 02	.8099E UO	•1765E GO	.1017E-06	.8237E-07	3140E-03	1734E-07	.3084E=03
.1350E 02	.8568E 00	.1705E 00	.9459E-07	7823E-07	3221E-03	1613E-07	.3101E-03
.1360E 02	.844UE UO	.1555E 00	.8798E-07	.7426E-07	.3297E-03	.1368E-07	3116E-03
.1370E 02	.8595E 00	,1555E 00	.8183E-07	.7034E-07	.3369E=03	.1272E-07	.313UE-u3
.1380E 02	,8751E 00	.1405E 00	.7611E-07	.6660E-07	.3438E-03	.1069E-07	3142E=03
.1390E 02	.8891E 00	.1405E 00	.707oE-07	.6294E-07	.3502E-03	,9945E-08	3152E-03
.1400E 02	.9032E 00	.1250E 00	.6533E - 07	.5946E-07	.3563E-03	.6229E=08	.3162E=03
.1410E 02	.9157E 00	.1250E 00	.6122E-07	•5606E - 07	.3621E-03	.7653E-08	.3170E=03
1420E 02	.9282E 00	.1095E 00	.5693E-07	•5285E-07	,3676E-03	,6235E=08	.3177E-03
.1430E 02	,9391E 00	.1095E 00	.5294E-07	.4972E-07	.3727E-03	.5797E=08	.3183E-03
.1440E 02	,9501E 00	.9401E+01	.4923E-07	.4678E-07	.3775E-03	.4628E-08	.3189E-03
.1450E 02	,9595E 00	.9400E-01	.4578E=07	.4393E-07	.3820E-03	.4304E-08	.3193E-03
1470E 02	,9689E 00 ,9760E 00	.7751E-01	.4257E-07	.4125E-07	.3863E=03	,3300E-08	.3197E+03
.1480E 02	,9760E 00 .9844E 00	,7750E=01	.3959E=07	.3866E-07	.3903E-03	,3068E-08	,3200E-03
.1490E 02	.9906E 00	.6201E-01 .6200E-01	.3681E-07	.3623E-07	.3940E-03	.2282E-08	.3203E-03
1500E 02	.9968E 00	,6600E-01	.3422E=07	.3390E-07	.3975E-03	.2122E-68	.3206E-03
	*******	,00000-01	.3182E-07	.3172E-07	.4008E-03	.2100E-08	.3208E-03

٠. ٤.	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.1510E 0;	.1003E	01 .6600E-01	.2959E-07	.2969E-07	41705 0		
.1520E 02	1010E		.2751E-07	.2778E=07			.321CE-U3
.1530E 02	1016E		.2558E-07	2598E-07	.4068E-03		3212E-03
.1540E 02	1022E	01 ,5001E-01	2370E-07	.2430E-07	.4120E-03		3213E-03
.1550E 02	,1027E	01 .5000E-01	,2211E-07	.2270E-07	4143E=03		3215E-03
.1560E 02	1032E	01 .5U00E-01	.2055E-07	.2121E-07	.4165E-03	1105E-08	.3216E-03
.1570E 02	.1037E	01 ,5000E-01	.19116-07	.1981E-07	.4185E-U3		.3217E-03
.1580E 02	.1042E	01 .4000E-01	.1776E-07	.1851E-07	4205E-03		.3216E-63
.1590E 02	.1046E	01 .4000E-01	.1651E=07	.1727E-07	4223E - 03	, , , , , , , , , , , , , , , , , , , ,	.3219E-03
.1600E 02		01 .40UUE-01	.1535E-07	.1612E-07	4239E-03		.3219E-03
.1610E 02	,	01 .4000E-01	.1427E-07	.1504E-07	4255E-03		.3220E-03
.1620E 02	,	01 .3001E-01	.1320E-07	.1403E-07	4269E-03	.3980E-09	,3221E-03
1630E 02	,	01 .3000E-01	.1233E-07	.1306E-07	42 83E - 03	.369 EE -0 9	.3221E-03
.1640E 02	,	01 .3499E-01	.1146E-07	.1219E-07	4295E-03		.3222E-03
.1650E 02	,		.1065E-07	.1137E-07	.4307E-03		.3222E=03
.1660E 02	,	01 .2500E-01	.990UE-U8	.1060E-07	.4318E-03	.2476E-09	.3223E=03
.1670E 02		01 .2500E-01	.9202E-08	.9878E-08	.4328E-03	.2300E-09	.3223E-03
.1680E 02		01 .2500E-01	.8553E-08	.9203E-08	.4338E-03	.2139E-09	.3223E+63
.1690E 02		01 .2500E-01	.7949E-08	.8573E-08	,4347E-03	1987E-09	.3223E-03
.1700E 02		01 .2500E-01	.7388E-08	.7987E-08	.4355E-03		3224E-03
•1710E 02		01 .2500E-01	.6867E-08	.7440E-08	4363E-03		3224E-03
.1720E 02	-	01 .2000E-01	.6382E-08	.6931E-08	.4370E-03	.1277E-09	.3224E=U3
.1730E 02	-	01 ,2000E-01	.5931E-U8	.6453E-08	.4377E-03	.1186E-09	3224E-03
1740E 02	,1090E		•5512E-08	.6008E-08	.4383E-03	.8271E-10	3224E-03
.1750E 02		01 .1500E-01	.5123E-08	•5591E-08	.4389E-03	.7684E-10	.3224E-U3
		01 .1500E-01	.4761E-08	.5203E-08	.4394E-03	,7141E-10	.3224E-03
.1770E 02	,1094E		.4424E-08	.4842E-08	.4399E-U3	.6636E-10	.3224E-03
.1790E 02	* 7 1	01 ,1500E-01	.4111E-06	.4506E-08	.4404E-03	.6166E-10	.3224E-03
.1800E 02		01 ,150UE=01	3821E-08	.4193E-08	.4408E-03	.5731E-10	.3225E+U3
.1810E 02	,1099Ē ,1100E	01 .1500E-01	.3550E=08	.3902E-08	•4412E-03	.5325E-10	.3225E-03
1820E 02			.3299E-08	.3631E-08	.4416E-03	.4949E-10	.3225E-03
1830E 02		,	.3066E-08	.3378E-08	.4419E-03	.3067E-10	.3225E-03
.1840E 02	.1104E	- , - , - , - , -	.2849E-08	.3142E-08	.4423E-03	.2849E-10	.3225E-03
1850E 02	.1105E		.2647E-08	.2922E-08	.4426E-03	.2647E-10	.3225E-03
1860E 02	•	01 .1000E-01	.2460E-08	.2718E-08	.4429E-03	.2460E-10	.3225E-03
1870E 02	.1107E		.2286E-08	.2528E-08	.4431E-03	.2286£-10	.3225E-03
.1880E 02	.1108E		,2124E=08	.2351E-08	.4434E-03	,2124E-10	.3225E-03
,1890E 02	*	01 .5υοῦΕ-ο2	.1973E-08 .1633E-08	.2186E-08	4436E-03	,9873E-11	.3225E-U3
.1900E 02		012997E-01	.1703E=08	.2032E-08	.4438E-03	.9167E-11	.3225E-03
.1910E 02	.1106F	013000E-01	.1563E=08	.1889E-08	.4440E-03		.3225E-03
.1920E 02		016995E-01	.1471E-08	•1750E+08	.4442E-03	-,4748E-10	.3225E+U3
.1730E 02		19000E-01	.1366E-08	.1622E-08		1323E-09	.3225E-03
.1940E 02		011450± 00	.1269E-U8	.1377E-08	.4445E-03	-,1230E-09	.3225E-03
.1950E 02		111450E 00	.1179E-08	.1262E-08	44405-03	1840E-09	.3224E-03
.1960E 02		1 -,1790E 00	.1096E=08	.1157E-08	17470E=U5	1710E-09	.3224E-U3
.1970E 02		11790E 00	.1018E-08	.1057E-08	44505-07	1961E-09	.3224E-03
.1980E U2		1 -,2030E 00	.9457E-09	.9648E-09		1822E-09	.3224E-U3
1990E 02		0 -,2030E 00	6786E-09	.8785E-09	44525-07	1920E-09	.3224E-03
			, , , , , , , , , , , , , , , , , , , ,	-37075-07	177766-03	1783E-09	.3224E-03

SPECTRUM AVERAGE CHOSS SECTION = .4453E-03

IN-115(N, N') IN-115M U-235 FISSION SPECTRUM



Ę	SIG	SIGP	PHI	SIG-PHI	F	SIGP*PHI	G
.4000E 00	.125UE-02	,2500E-01	.3497E-03	.4371E-06	.1364E-04	.8742E-05	.4382E-03
.5000E 00	.3750=-02	.4250E-01	.3623E=03	.1359E-05	1035E-03	.154GE-04	.1336E-02
.6000E 00	.3000E-02	.6000E-u1	.3678E⇒33	.2942E-05	.3193E-03	.2207E-04	.2896E-02
.7000E 00	.1400E-01	.9500E-01	.3661E-03	•5153E-05	.7255E-03	.3497E-04	5119E-02
.40006 00	,2350E=01	.1350E 00	.3647E-03	.8570E-05	+1414E-02	.4923E-04	.8617E-02
,9000E 00	,3700E=01	,2200E 00	.3584E-03	.1326E-04	.2510E-02	.7885E-04	.1353E-01
.1000E 01	.5900E-01	.2300E 00	.3501E-03	.2066E-04	,4214E-02	.8053E-04	.2133E-01
.1100E 01	. 9500E+01	.1900E 00	.3403E-03	.2790E-04	.6650E-02	.6465E-04	.2926E-01
.1200E 01	.10102 00	.1500E 00	.3294E-03	.3327E-04	.9715E-02	.4940E-04	3561E-01
.1300E 01	,1160E 00	.2000F U0	.3177E-03	.3685E-04	.1323E-01	.6353E-04	.4C47E-01
.1400E 01	,1360E 00	,3100E 00	.3055E-03	.4155E-04	.1715E-01	.9470E=04	.4674E-01
.1500E 01	.1670± 00	,22J0E Q0	.2930E-03	.4894E-04	.2169E-01	.6447E-04	.55 99E = 01
.1600E 01	.1690E 00	,2150E 0U	.28ú5E-03	.5301E-04	.2679E-01	,6030E-04	.6229E-01
.1700E 01	.21055 00	.2150E 00	.2679E-03	.5639E-04	.3227E-01	.5760E-U4	.6819E-01
.1800E 01	.232UE 0U	.1400E 00	.2554E-US	.5926E-04	.3806E-01	.3576E-04	.7379E-01
.1900E 01	.2460E 00	.1400È 00	.2432E-03	.5983E-04	.4401E-01	,3405E=04	.7728E-01
.2000E 01	,2600E 6U	,8000E-01	.2312E-03	.6012E-04	.5001E-01	.1850E-04	.8059E-01
.2100E 01	.2680E 00	,8000E-01	.2196E-U3	5884E-04	,5596E=01	,1757E-04	.8239E-U1
.2200E 01	,276UE 00	.8000E-01	.2083E-03	.5748E-04	.6178E-01	,1666E-04	.841UE-01
.2300E 01	.2824E 00	.4000E-01	.1973E-03	.5573E-04	.6745E-01	.9472E-05	.8540E+01
.2400E 01	.2372E JO	.4800E-01	.18682-03	,5365E-04	.7291E-01	,8966E-05	.8632E-01
.2500E 01	.2920E 00	.5200E-01	.1767E-03	•5159E-04	.7817E-01	.9187E-05	.6719E-01
.2600E 01	.2972E 0U	.5200E-01	.1670E-03	.4962E-04	.8323E-01	.8682E-05	.8808E-01
2700E 01	3024E 00	.5200E-01	.1577E-03	.4768E-04	.5810E-01	.8199E-05	.8893E-01
.2800E 01	.3060E 00	.2000E-01	.1488E-03	4553E-04	.9276E=01	,2976E-05	.8948E-u1
.2900E 01	,30 8UE 00	,2300E-01	.1403E-03	.4322E-04	.9720E-01	.2806E-05	. 69 77E-01
.3000E 01	,3100E 00	.1600E-01	13235-03	.4100E-04	.1014E 00	,2116E-05	.9004E-01
.3100E 01	,3116E 00	.1600E-01	.1246E-03	3882E-04	,1054E 00	.1993E-05	.9024E-01
,3200E 01	,31326 00	.1600E-01	·1173E=03	.3674E-04	1092E 00	.1877E-05	.9044E-01
.3300E 01	3144E 00	.8000E-02	.1104E-03	.347GE-04	.1127E 00	.8831E-06	.9057E-01
.34U0E 01	.3152E 00	.8000E-02	.1038E-03	.3273E-04	•1161E 00	.8306E-06	.9066E-01
.3500E 01	.3160E 00	.8000£-02	.9762E=04	.3085E-04	.1193E 00	.7810E-06	.9074E-U1
.3600E 01	.3168E 00	.8000E-02	.9175E=04	.2907E-04	.1223E 00	.7340E-06	.9082E-01
.3700E 01	.3176E UU	.8000E-02	.8619E-04	.2738E-04	,1251E 00	.6896E-06	.9089E=01
.3900E 01		.4000E-02	.8695E-04	.2576E-04	.1278E 00	.3238E-06	.9094E-01
.4000E 01	.3186E 00	.4000E-02	.7599E=04 .7132E=04	.2421E-04	.1303E 00	,3040E-06	.9097E + 01
.4100E 01	.3194E U0	4000E-02	.6691E-04	.2137E-04		,2853E-06	.9100E=01
.4200E 01	3198E 00	.40u0E-02	.6276E-U4	.2007E-04	.1348E 00	.2676E-06	.9103E=01
4300E 01	32025 00	.4000E-02	.5884E-04	.1884E-04	.1369E 00	.2510E-06	.9105E=01
4400E 01	3206E 00	.4000E-02	.5516E-04	.1768E+04		.2206E-06	.9108E=01
4500E 01	•	3999E-02	.5169E=04	.1659E-04	.1406E 00	2067E-06	.9110E-01
.4600E 01	•	4000E-02	.4843E-04	.1553E-04	.1440E 00	1937E-06	
4700E 01		-,4000E-02	.4537E-04	.1453E-04	.1455E 00	-,1815E-06	.9110E-01
48U0E 01		400UE-02	.4249E=04	.1359E-04	.1469E 00		.9106E-01
4900E 01		4u00E-02	3976E-04	.1271E-04	.1482E 00	-,1591E-06	.9105E-01
50U0E 01		-,6000E-02	.3724E-04	.1188E-04		-,2234E-06	.9103E-01
5100E 01		6000E-02	.3405E-04	.1110E-04		2091E-06	.9101E-01
.5200E 01		-,600UE-02	3261E-04	.1036E-04		1957E-06	.9099E=01
,5300E 01	• • • •	6000E-02	.3051E-04	.9677E-05		1831E-06	.9097E-01
things of	107,55 00	- 100005-05	10075-04	1,0//5-07	117505 00	-110015-00	*****

t ,	SIG	SIGP	PHI	SIG*PHI	F	SIGPOPH	1 G
.5400E 0:	.3166	E 006000E-02	28545-04	00755-05	4".		
.>>UOE 0	. ,	E 006000E-02		.9035E-05	,1536E	0017125-0	6 .9095E-01
.5600E 0		E 006000E-02		.8434E-05	1244E	001601E-0	6 .9094E-01
>700E 0			, , , , , , , , , , , , , , , , , , , ,	.7871E-05	•1773E	001497E-0	6 .90 92E-01
5800E 0		E 00 -,6000E-02	.2151E=04	7345E=05	•1260E	00 -,1400E-0	6 .9091E-01
5900E 0	. ,	E 00600UE-02	.2030E-04	.6853E-05	120/E	001309E-0	
.6000E 0	3130	E 001100E-01	.1905E-04	.6393E-05		00 -,1223E-0	
.6100E 0		E 00 - 1100E-01	.1780E=04	.5963E=05	12805	002095E-0	6 .9087E-01
.6200E 0			.1663E-04	.5168E-05	12805	00 -,1958E-0	
.6300E 01		E 00 -,1100E-01	.1553E=04	.4811E=05	,1591E	001829E-0	
.6400E 01	30866	E 001100E-01	1451E-04	•4477E=05	14046	00 -,1709E-0	
.6500E 01	30756	00 -,1100E-01	.1355E-04	.4166E-05		001596E-0	. 4.4
.6600E 01	3064		1265E-04	.3877E-05	.1609E	001490E-0	
.6700E 01	.3053E	001100E-01	.1181E-04	.3607E-05		001392E-0	6 .9076E-U1
.6800E 01		00 -,1100E-01	.1103E-04	.3355E-05	14145	00 -,1299E-0	
.6900E 01	,3031E	601100E-01	1029E-04	.3120E-05	.16205	001132E-0	9074E-01
.7000E 01	.3020E	: 001500E-01	.9609E-05	.2902E-05			
.7100E 01	,3005E		.8968E-05	.2695E-05		00 -,1441E-00 00 -,1345E-00	==
.7200E 01		00 -,1500E-01	.8369E-05	.2502E-05		001255E-U	
.7300E 01	.2975E	00 -,1500E-01	78396-05	.2323E-05	.1630E		
.7400E 01	,2960E	001500E-01	.7286E-05	2157E-05		001093E-0	
.7500E 01	.2945E	00 -,1500E-01	.6797E-05	.2002E-05	.1635E		
•7600E 01	.29305	001500E-01	.6341E-05	.1858E-05	,1637E		
.7700E 01	, 29155	001500E-01	.5914E-05	.1724E-05	.1638E		
7800E 01	.2900E	00 -,15006-01	.5516E-U5	.1600E-05		008274E-07	/ .9064E=01 / .9063E=01
1900E 01	.2385E	00 -,1500E-01	.5144E-05	.1484E-05	.1642F	007716E-07	9062E-01
.000E 01	.2070E	001300E-01	.4797E-05	.1377E-05	,1643E		.9061E-01
.8100E 01	2057E	. ,	.4473E-05	.1278E-05		005815E-07	9061E=01
.8200E 01			.4171E-05	·1186E-05	.1646E		
.8300E 01			.3898E-05	.1101E-05		005055E-07	9060E-01
.8400E 01	.2818E	00 -,1300E-01	.3625E-05	.1022E-05	.1648E		
.8500E 01	.2305E		.3379E - 05	.9479E-06	.1649E		
.8600E 01	. 27 92E		.3150E-05	.8794E-06		004093E-07	9058E+G1
.8700E 01		001300E-01	.2936E-05	.8159E-06	+1651E	003817E-07	9059E-01
.8800E 01	2766		.2736E-05	.7568E - 06		003557E-07	
	27708	001300E-01	.255UE-05	.7020E-06	15525	00 -,3315E-07	.9057E-01
	27705	001200E-01	.2376E-05	•6511E=06	.1653E (002851E-07	.9057E-01
.9100E 01	12/205	00 -,1200E-01	.2214E-05	.6040E-06	•1653E (00 -,2657E-07	.9056E-01
.9300E 01	12/10E	00 -,1200E-01	.2063E-05	•5603E - 06	.1654E (
.9400E 01	120705	002400E-01	.1922E-05	.5186E-06	.1655E (00 -,4613E-07	
.9500E 01	14505	002400E-01	.1791E-05	.4789E-05	.1655E	00 -,42986-07	.9055E-01
.9600E 01		002J00E-01	.1668E-05	.4421E-06	.1655E 0	003337E-07	.9055E-01
.97UOE 01		0020006-01	.1554E-05	4087E-06	.1656E 0	00 -,3108E-07	,9055E-01
.9800E 01		00 -,2000E-01	.1448E=05	.3778E-06	•1656€ n	10 -,2895E-07	.9054E=01
9900E 01		00 -,2800E-01	,134dE=05	.3487E-06	.1657E 0	003776E-07	.9054E-01
1000E 02		00 =,2800E=01	.1256E-05	.3213E-06	•1657E 0	003517E-07	.9054E-01
.1010E 02	. 24775	005299E-01 005300E-01	,1170E=05	.2959E-06		006199E-07	.9053E-01
.1020E 02		00 -,5300E-01	.1089E-05	.2698E-06		05774E-07	.9053E-01
.1030E 02		00 -,5300E-01	.1014E=05	.2459E -06	.1658E 0	05377E-07	.9052E-U1
	150/15	44 -12005401	.9447E=06	.2240E-06	.1658E 0	05007E-07	.9052E-01

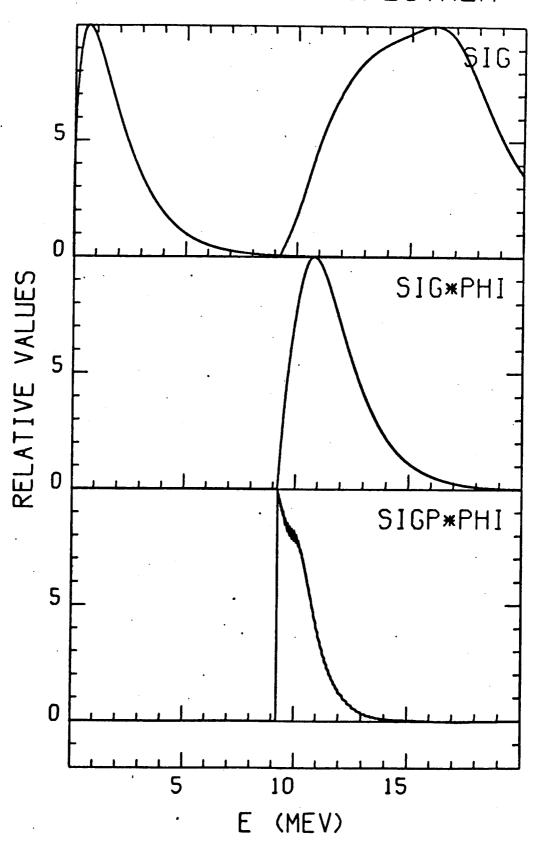
Ë	SIG	SIGP	PHI	SIG*PHI	F	SIGP•PHI	G
.1040E 02	.2318E 00	-,5300E-01	.8797E-06	.2039E-06	.16595 00	-,4662E-07	00545-04
.1050E 02		5300E-01	.8191E-06	.1855E-06	.1658E GO	•	.9051E-01
.1060E 02		-,53J0E-01	.7627E-06	.1687E-06		4042E-07	.9050E=01
.1070E 02		5300E-01	.71 U1E-J6	.1533E-06		3763E-07	.9050E-01
.1080E 02	-	-,5390E-01	.6611E=05	.1392E-06		-,3504E-07	.9050E-01
.1090E 02	,2053E 00	5300E-01	6154E-U6	.1263E-06		3262E-07	.9049E-01
.1100E 02	,2000E 60	-,5900E-01	.5729E-06	.1146E-06		-,338JE-07	.904yE-01
.1110E 02	.1941E 00	-,5900E-01	.5333E-06	.1035E-06		-,3147E-07	9049E-01
.1120E 02		-,5900E-01	.4965E-06	.9343E-07		2929E-07	.9048E-01
1130E 02		-,5900E-01	.4621E-06	.8424E-07	,1660E 00	-,2726E-G7	.9048E-01
.1140E 02	-	5900E-01	.4301E-06	.7587E-07		-,2538E-07	.9048E-01
1150E 02		-,5900E-01	.4003E-06	.6826E-07	.1669€ 00	2362E-07	.9047E-J1
.1160E 02		-,5900E-01	.3726E-06	.6133E-07		-,2198E-07	.9047E-01
.1170E 02	•	59u0E-01	.3468E-06	•5503E-07	.16605 00	-,2046E-07	.9047E-01
.1180E 02	•	-,5900E-01	3227E-06	.4931E-07	.1560E 00	1904E-07	.9047E-U1
1190E 02		-,5900E-01	.3003E-06	.4411E-07		1772E-07	.9047E-01
.1200E U2		5200E-01	.2795E=06	.3940E-07		-,1453E-07	,9046E-01
.1210E 02		-,5200E-01	.2600E=06	.3531E-07		1352E-07	.9046E-01
.1230E 02		-,5200E-01 -,5200E-01	.2420E=06	.3160E-07		-,1258E-07	.9046E-01
.1240E 02		5200E-01	.2251E-06	.2823E-07		1171E-07	9046E-01
1250E 02		4600E-01	.1949E-06	.2518E-07		1089E-07	.9046E-01
.1260E 02		-,4500E-u1	.1813E-06	.2002E-07		8966E-08	. 9046E-01
.1270E 02		4600E-01	.16 67E - 06	.1785E-07	,1660E 00	6342E-08	,9046E=01
.1280E 02		4600E-01	.1576E-06	.1588E-07	.1560E 00		.9046E+01
.1290E 02		-,4500E-01	.1460E-06	.1411E-07		6717E-08	.9046E-01
.1300E 02		2391E-01	1358E-06	.1250E-07		3804E-08	.9045E-01
.1310E 02	.8920E-01	-,2800E-01	.1264E-06	.1127E-07		3538E-08	.9045E-01
.1320E 02	.3640E-01	-,2300E-01	.1175E-06	.1016E-07		3291E-US	9045E-01
.1330E 02		-,25U0E-01	.1093E-06	.9140E-08	.1660E 00	3061E-08	.9045E-01
.1340E 02	•	2500E-01	.1017E-06	.8217E-08	.1660€ 00	-,2848E-08	.9045E-01
.1350E 02		-,2400E-01	.9459E-07	.7378E-08	.1660E 00	-,2270E-08	.9045E-U1
.1360E 02		2400E-u1	.8798E-07	.6652E-08	.1660E 00	-,2112E-08	.9045E-U1
.1370E 02	•	2400E-01	6163E-07	5990E-08		1964E-08	.9045E-01
.1380E 02		-,2400E-01	.7611E-07	.5389E-08		-,1827E-08	.9045E-U1
.1400E 02		-,2430E-01	.7078E-07	.4842E-08		1699E-08	.9045E-01
.1410E 02	•	1201E-01 1200E-01	.6583E=07	.4345E-08		7903E-09	.9045E-01
.1420E 02	•	1200E-01	.6122E-07	.3967E-08		-,7347E-09	.9045E-01
1430E 02		8000E-02	.5693E-07 .5294E-07	.3621E-08		-,6832E-09	.9045E-01
1440E 02		8000E-02	.4923E-07	.3314E=08 .3043E=08		-,4236E-09	.9045E-01
1450E 02		4002E-02	.4578E-07	.2793E-08		-,3939E-09	.9045E-01
1460E 02	• -	4000E-02	.4257E=07	.2580E-08		-,1832E-09 -,1703E-09	.9045E+01
1470E 02		-,4000E-02	3959E-07	.2383E-08		1583E-09	.9045E-01 .9045E-01
.1480E 02		4060E-02	3661E-07	.2201E-08		1472E-09	.9045E-01
.1490E 02		-,4000E-02	3422E-07	.2033E-08		1369E-09	.9045E-01
.1500E 02		-,2001E-02	.3162E-07	.1877E-08		-,6368E-10	.9045E-01
•1510E 02	.5380E-01	2000E-02	.2959E-07	.1740E-08		5917E-10	.9045E-01
.1520E 02	.58602-01	-,2000E-02	.2751E-07	.1612E-08		-,5502E-10	.9045E-01
.1>30E 02	.5840E-01	2000E-02	.2558E-07	.1494E-08		5115E-10	.9045E-01

IN-115(N,N') IN-115M U-235 FISSION SPECTRUM

E		SIG	SIGP	PHI	SIG*PHI	F		SIGP•PHI	G
.1540	E 02	.54205-01	-,2000E-02	07705 65					•
.1550		.5400E=01	-,2000E-02			,	00	-,4756E-10	.9045E-J1
.1>60	_	.578001	-,2000E-02			1660E	00	4421E-10	9045E-01
.15708		.5760E=01	-,2000E-02			.1660E	0.0	4110F-10	9045E-01
12808		. 5740 - 01	2000E-02		.1100E-08	.1660E	0.0	-,3821E-10	9045E-01
1590		57202-01	2000E-02		•1019E-08	1660E	0.0	-,3552E-10	9045E-01
16006		57005-01	5009E-02		.9444E-09	.1660E	0.0	-,3302E-10	.9045E+01
1610		56955-01	-,5009E-03		.6748E+09		0.0	-,7688E-11	.9045E-01
.16208		56.005-01	5000E-03	.1427E-07	.8125E-09	.1660F	0.0	-,7134E-11	.9045E-01
.1630E		56856-01	5000E-03	.1326E-07	.7546E-09		00	-,6631E-11	9045E-01
.1640E		56806-01	5000E-03	.1233E-07	.7008E-09		0.0	-,6164E-11	.9045E-01
.1650E	_	34752-01	-,5000E-03	•1146E-07	.6509E-09	.1660E	0.0	5730E-11	.9045E-01
1660E		54705-01	-,5000E-03	.1065E-07	.6045E-09		0.0	-,5326E-11	.9045E-01
,1670E		54450-01	5000E-03	.990CE-08	.5613E-09	,1660E	Ωñ	-,4950E-11	.9045E=01
1680E		5440C-04	5000E-03	.9202E-08	.5213E-09		nn.	-,4601E-11	00455-04
.1640E	02	122006-01	-,5000E-03	.8553E-08	.4841E-09		n n	4276E-11	.9045E-01
.1/00E		5450-01	-,5000e-03	.7949E-08	.4495E-09	.1660E	0.0	-,3975E-11	9045E-01
1710E		. 2020E=01	5000E-03	.7358E-08	.4174E-09	1560F	0.0	-,3694E-11	.9045E-01
.1720E		*3043E=U1	50u0E-03	.6867E-08	.3876E-09	.1660E	0.0	-,3433E-11	.9045E-01
.1730E	02	.7040E=01	5000E-03	.63a2E-08	.359 9E-0 9	.1660E	0.0	3191E-11	.9045E-01
.1740E	02	*2032E=U1	5UCOE-03	.5931E-0a	.3342E-09	.1660E	00	2966E-11	.9045E-U1
1750E		12020F=01	5000E-03	.5512E-08	.3103E-09	.1660E	0.0	2756E-11	.9045E-01
1760E	02	.3625E-01	5000E-03	.5123E-08	.2881E-09	.1660E	0.0	-,2561E-11	.9045E-01
.1770E		.5620E-01	-,5000E-03	.4761E-0a	.2675E-09	.1660E	n u	2380E-11	.9045E-U1
.1780E		.5615E-01	5000E-03	.4424E-U8	.2484E-09		0.0	-,2212E-11	.9045E-01
.1790E	02	.5610E-01	5000E-03	.4111E-08	.2306E-09		00	-,2056E-11	.9045E-01
1800E	02	,5605E-01	-,5000E-03	.3821E-08	.2141E-09		00	1910E-11	.9045E-01
- · · -	0.2	,5600E-01	9996E-U3	.3550E-08	.1988E-09	.1660E	00	3549E-11	.9045E-01
.1810E	02	,5590E-01	1000E-02	.3299E=08	.1844E-09	.1660E	00	-,3299E-11	.9045E-01
.1820E	02	.5580E-01	1UJUE-02	.3066E-08	1711E-09	.1660E	00	-,32996-11	.9045E-01
.1830E	02	.5570E-01	-,1000E-02	.2849E-08	.1587E-09			-,3066E-11	.9045E-01
	02	,5360E-01	-,1JüüE-02	.2647E-08	14726-09		00 '	-,2849E-11	.9045E-01
1850E	02	,5550E-01	-,1000E-G2	.2460E-08	.1365E-09		י טני	2647E-11	.9045E+G1
	0.5	.5540E-U1 .	1000E-02	.2286E-08	.1266E-09	,1660E	י טנ	-,2460E-11	.9045E-01
	02	.5530E=01 -	•.1000E-G2	.2124E-08	.1174E-09	.1560E	י טנ	.2286E-11	.9045E-01
	0.5	.5520E-01 -	1000E-02	1973E-08	.1089E-09	.1660E (, ,	,2124E-11	.9U45E-U1
	02	.5510E-01 ·	.1000E-02	.1633E-08	.1010E-09	14405		1973E-11	.9045E-01
.1900E		.5500E=01 -	.1000E-02	.1703E-08	.9369E-10	1440E	10 •	.1833E-11	.9045E-01
.1910E		.5490E-u1 -	.1000E-n2	.1503E-08	.6689E-10	10005		,1703E-11	.9045E-01
.1920E	02	.5480E-01 -	.1000E-02	.14/1E-G3	.8058E-10	.1660E 0	10 -	.1583E-11	.9045E=01
	02	.5470t-01 -	.1000E-02	.1366E-08	.7473E-10	•1560E 0	0 -	-1471E-11	.9045E-01
	02	.5460E-01 -	.1000E-02	.1269E-03	.6931E-10	.100UE 0	0 -	.1366E-11	.9045E-01
	0.5	.3450E-01 -	.1000E-02	.1179E-03	.6427E-10	.1660E 0	0 -	.1269E-11	.9045E-01
	0.2	,5440E-01 -	.1000E-n2	.1096E-08	+042/E41U	.1560E 0	0 -	.1179E-11	.9045E-01
	02	.5430E-01 -	.1000E-n2	.1015E-08	.5960E-10	.1660F 0	0 -	.1096E-11	.9045E-01
1980E	0.2	.5420E-01 -	.1000F-02	.9457E-09	•5527E-10	•1660E 0	0 -	.1018E-11	.9045E-01
.1990E	02	.5410E-01 -	.1000E-n2	.8786E-09	.5126E-10	.1660E 0	0 -	.9457E-12	.9045E-01
		· · · - · ·			.4753E-10	.1660E 0	0 -	.8786E-12	.9045E-01

SPECTRUM AVERAGE CROSS SECTION . . 1660E 00

I-127(N, 2N) I-126 U-235 FISSION SPECTRUM



Ė	SIG	SIGP	PHI	SIGOPHI	F	SIGP*PHI	G
.9300E 01	.2390E-01	.3459E 00	.1922E-05	.4594E-07	.1653E-05	.6650E-06	.4777E-04
.94UDE 01	5091E-01	3578E 00	1791E-05	1055E-06	.9310E-05	.6407E-06	1127E-03
.9500E 01	.9500E-01	.3727E 00	.1668E-u5	.1585E-06	.2259E-04	.6218E-06	.1751E-03
,9600E 01	.1323E 00	.3875E 00	.1554E-05	.2056E+06	.4088E-04	.6022E-06	2351E-03
.9700E 01	.1710E 00	.4062E 00	.1448E-U5	.2476E-06	.6362E-04	.5880E-06	.2933E-03
.9800E 01	,2116E 0U	.4236E 00	.1348E-05	.2854E-06	.9034E-04	.5779E-06	.3501E-03
.9900E 01	,2545E 00	.4>50E 00	.1256E-05	.3196E-06	.1207E-03	.5714E-06	4059E-03
.1000E 02	,3000E 00	.4835E 00	.117UE-05	.3509E-06	.1543E=03	,5656E-06	4610E-03
.1010E 02	,3483E 00	.5078E 00	.1089E-05	.3795E-06	.1908E-03	,5532E-06	.5156E+03
.1020E 02	.3991E 00	,5259E 00	.1014E-05	.4049E-06	.2301E-03	.5335E-06	.5690E-03
.1030E 02	,4517E 00	,5363E 00	,9447E-06	.4267E-06	.2718E-03	.5085E-06	.6205E-03
.1040E 02	.5055E 00	,5445E 00	.8797E-06	.4447E-06	.3154E-03	.4790E-06	.6696E-03
1050E 02	.5600č 00	,5452E 00	.8191E-06	4587E-06	.3606E-03	.4466E-06	.7158E-03
1060E 02	.6145E 00	,5415E 00	.7627E-06	.4687E-06	4070E-03	,4130E-06	.7589E-03
.1070E 02	,66d7E 00	.5340E 00	.7101E-06	.4748E-06	.4542E-03	.3792E-06	.7987E-03
.1080E 02	.7221E 00	.5224E JO	.6611E-06	.4773E-06	.5018E-03	.3453E-06	.8353E-U3
.1100E 02	.7743E 00	.5069E 00	.6154E+06	.4765E-06	,5496E=03	.3120E-C6	.86 86E-03
.1110E 02	.8738E 00	.4689E 00	,5729E-06 ,5333E-06	.4727E-06	.5970E=03	.2796E-06	.8987E-03
1120E 02	9207E 00	.4498E 00	.4905E-06	.4571E-06	.6440E-03	,2501E = 06	.9257E=03
.1130E 02	.9657E 00	.4312E 00	4621E-06	.4462E-06	.7353E=03	,2233E-06 ,1993E-06	.9498E-03
.1140E 02	.1009E 01	4120E 00	4301E-06	.4339E=06	.7793E=03	.1772E-06	.9905E=03
.1150E 02	.1050E 01	3940E 00	4603E-06	.4203E-06	.8220E-03	.1577E-06	.1008E-02
,1160E 02	.1089E 01	.3760E 00	.3726E-06	.4059E-06	.8633E-03	.1401E-06	.1003E-02
.1170E 02	.1127E 01	3590E 00	.3468E=06	.3908E-06	.9031E-03	1245E-06	.1036E-02
.1180E 02	.1163E 01	.3430E 00	.3227E-06	.3753E-06	.9414E-03	.1107E-06	.1048E-02
.1190E 02	.1197E 01	,3280E 00	.3003E-06	.3595E-06	9782E-03	.9850E-07	.1059E-02
,1200E 02	.1230E 01	,3060E 00	.2795E-06	.3437E-06	1013E-02	.8552E+07	.1068E-02
.1210E 02	.1261E U1	,3060E 00	.2600E-06	.3278E-06	.1047E-02	.7957E-07	.1077E-02
.1220E 02	.1291E 01	,2775E 00	.2420E-06	.3124E-06	.1079E-02	.6715E-07	.1084E-02
.1230E 02	,1319E 01	,2775E JO	.22515-06	.2970E-06	.1109E-02	.6248E-07	.1091E-02
.1240E 02	.1347E 01	.2495E 00	.2095E-06	.2821E-06	·1138E-02	,5227E-07	.1097E-02
.1250E 02	,1372E U1	.2495E 00	.1949E-06	.2674E-06	,1166E-02	.4863E-07	.1102E-02
.1260E 02	.1397E 01	.2220E 00	.1813E-06	.2533E-06	11925-02	,4026E-07	.1107E-02
.1270E 02	,1419E 01	,2220E 00	.1687E=06	.2394E-06	.1216E-02	.3745E-07	.1111E-02
.1290E 02	.1441E 01 .1460E 01	.1950E 00 .1950E 00	.1570E-06	.2262E-06	.1240E-02	.3061E-07	.1114E-02
.1300E 02	.1480E 01	.1695E 00	.1460E=06	.2133E-06	.1262E-02	.2847E-07	.1117E-02
1310E 02	14972 01	.1695E 00	.1264E=06	.2010E=06	.1282E-02	,2303E-07	.1120E-02
.1320E 02	.1514E 01	.1460E GO	.1175E-06	.1779E-06	.1320E-02	.2142E-07	.1122E-02
.1330E 02	15286 01	.1460E 00	.1093E-06	.1671E-06	.1337E-02	.1596E-07	.1124E-02
.1340E 02	1543E 01	.1265E UU	.1017E-06	.1569E-06	.1354E-C2	.1287E-07	.1127E-02
.1350E 02	1556E 01	.1265E 00	9459E+07	.1472E-06	13695-02	.1197E-07	.1127E-02
.1360E 02	.1568E 01	1105E 00	8790E=07	.1380E-06	1383E-02	9723E-08	.1130E-02
.1370E 02	,1579€ 01	.1105E 00	.8183E-07	.1293E-06	.1396E-02	9042E-08	.1131E-02
.1380E 02	1590E 01	,9751E-01	.7611E-07	.1211E-06	.1409E-02	,7421E-08	.1131E-02
.1590E 02	.1600E 01	,9750E-01	.7076E=07	.1133E-06	.1421E-02	.6901E-08	.1132E-02
.1400E 02	.1610E 01	.6800E-01	,6503E-07	.1060E-06	.1432E-02	.5793E-08	.1133E-02
1410E 02	.1619E 01	.8800E-01	.6122E-07	9910E-07	.1442E-02	.5387E-08	.1133E-02
.1420E 02	.1628E 01	,6101E-01	,5693E-07	.9267E-07	•1451E-02	.4612E-08	.1134E-02

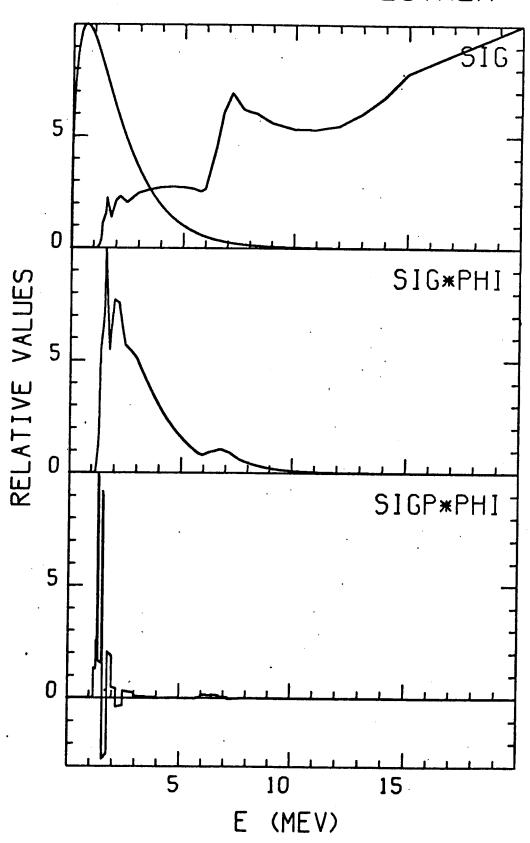
E .	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.1450E 02	.1636E U1	.8130E-01	.5294E-07	.8660E-07	.1460E-02	.4289E-08	.1134E-02
.1440E 02	1644E 01	, •	4923E-07	.8093E-07	1469E-02	3791E-08	1135E-02
.1450E 02	1551E 01		4576E-07	7561E-07	.1477E-02	3525E-08	.1135E-C2
.1460E 02	.1659E U1		4257E-07	.7064E-07	1484F-02	3235E-08	.1136E=02
.1470E 02	.1667E U1	.7600E-U1	.3959E-07	.6598E-07	1491E-02	.3009E-08	.1136E-02
.1480E 02	.1674E U1	.7800E-01	.3661E-07	.6163E-07	.1497E-02	.2871E-C8	.1136E-02
.1490E 02	,1682E U1	.78u0E-01	.3422E-07	.5757E-07	.1503E-62	.2670E-08	.1136E-02
.1500E 02	.1690E U1	.8100E-01	.3182E-07	.5378E-07	.1509E-02	2578E-08	.1137E-02
.1>10E 02	,1698E U1	.8100E-01	.2959E-07	.5024E-07	.1514E-02	.2397E-08	.1137E-02
.1220E 02	.1706E U1	.78JOE-01	.2751E-07	.4693E-07	.1519E-02	.2146E-08	1137E-02
.1530E 02	,1714E 01	.7800E-01	.2558E-07	.4384E-07	.1523E-02	,1995E-08	.1137E-02
.1540E 02	,1722E 01	.6751E-01	.2378E=07	.4094E-07	.1527E-02	.1605E-08	.1138E-02
.1550E 02	,1729ē 01	.6750E-01	.2211E-07	.3821E-07	.1531E-02	.1492E-08	.1138E-02
.1560E 02	,1735E 01	.4 951E-01	.2055E-07	.3566E+07	.1535E-02	.1017E-08	.1138E-02
.1570E 02	1740E U1	.495UE-U1	.1911E-07	.3325E-07	.1538E-02	.9457E-09	.1138E-02
.1580E 02	.1745E 01	.2401E-01	.1776E-07	.3100E-07	.1542E-02	.4265E-09	.1138E-02
.1590E 02	,1748E U1	.2400E-01	.1651E-07	.2885E-07	.1545E-02	.3963E-09	.1138E-42
.1600E 02	•	-,8978E-02	.1535E-07	.2686E-07		1378E-09	.1138E-02
.1610E 02	•	-,9000E-02	.1427E-07	.2496E-07		-,1284E-09	.1138E-02
1620E 02		-,4798E-01	.1326E-07	.2319E-07		-,6363E-09	.1138E-02
1630E 02		4800E-01	1233E-07	.2149E-07		-,5917E-09	.113cE-02
1640E 02		-,9397E-01	.1146E-07	.1992E-07		1077E-08	.1138E-02
.1650E 02		9400E-01	.1065E-07	.1842E-07		-,1001E-08	.1138E=02
.1670E 02	.1720E 01	1455E 00 1455E 00	.9900E-08	.1703E-07		1440E-08	.1138E-02
.1680E 02		2035E 00	.8553E-08	.1569E-07		-,1339E-08	.1135E-02
.1690E 02		2035E 00	.7949E-08	•1446E=07 •1328E=07		1740E-08	.1137E-02
.1700E 02		-,2650E 00	7360E-08	.1219E-07		1958E-08	.1137E-02
1710E 02	.1624E 01		.6667E-08	.1115E-07		182UE-08	.1137E-U2
.1720E 02	1597E 01		6362E-08	.1019E-07		2023E-08	.1137E-U2
1730E 02		3170E 00	5931E-08	.9284E-08		1880E-08	.1137E-02
.1740E 02	•	3570E 00	.5512E-08	.8453E-08		-,1968E-08	.1136E-02
.1750E 02	.1498E 01		.5123E-08	.7673E-08		1829E-U8	.1136E-02
.1760E 02	,1462E 01	-,3a50E 00	.4761E-U8	.6961E-08		1833E-08	.1136E-U2
.1770E 02	.1424E 01	-,3850E 00	.4424E-08	.6299E-08		1703E-08	.1136E=02
.1780E 02	,1385E 01	4010E 00	.4111E-08	.5695E-08	,1573E-02	1649E-08	.1136E-02
.1790E 02	,1345E 01	4010E 00	.3821E-08	.5139E-08		1532E-08	.1136E-U2
.1800E 02	.1305E 01	 4∪55E ∪0	.3550E-08	.4633E-08		-,1440E-08	.1135E-02
.1810E 02	,1264ë G1	4055E CO	.3299E-08	.4172E-08	.15756-02	1338E-08	.1135E-02
.1820E 02		-,4035E 00	.3066E-08	.3752E-08	.1575E-02	-,1237E-08	.1135E-02
1830E 02		-,4035E 00	.2649E-08	,3372E-08		1149E-08	.1135E-U2
.1840E 02		3955E UC	.264/E-08	.3026E-08	.1576E-02	1047E-08	.1135E-02
.1850E 02	.1104E 01	•	.2460E-08	.2715E-08		-,9728E-09	.1135E-02
.1860E 02	.1064E 01		.2286E-08	.2432E + 08		-,8738E-09	.1135E-02
.1870E 02	.1026E U1		.2124E-08	.2179E-08		-,8119E-09	.1135E-02
.1880E 02	.9876E 00		.1973E-08	.1949E-08		7167E-09	.1135E-02
.1890E 02	•	-,3632£ 00	.1833E-08	.1744E-08		6659E-09	.1134E-02
.1900E 02	.9150E 00	-,3395E 00	.1703E-08	1559E-08		-,5783E-19	.1134E-U2
		-,3394E 00 -,3147E 00	.1583E-08	.1394E-08		-,5373E-09	.1134E-02
.1920E 02	104/75 00	-1214/5 00	.1471E-08	.1246E-08	12//6-05	-,4628E-09	.1134E-02

I-127(N.2N) I-126 U-235 FISSIEN SPECTRUM

ŧ		SIG		SIGP	PHI	SIGOPHI	F	SIGPOPHI	G
.1930E .1940E .1950E .1960E .1970E .1980E .1990E	02 02 02 02	,7842E ,7552E ,7262E ,6996E ,6731E ,6491E	00	3147E 00 2900E 00 2900E 00 2653E 00 2653E 00 2406E 00 2405E 00	.1269E-08	.1114E-08 .9954E-09 .8906E-09 .7956E-09 .7122E-09 .6365E-09	.1577E-02 .1578E-02 .1578E-02 .1578E-02 .1578E-02	-,4300E-09 -,3681E-09 -,3420E-09 -,2907E-09 -,2701E-09 -,2275E-09 -,2113E-09	.1134E+02 .1134E+02 .1134E+02 .1134E+02 .1134E+02 .1134E+02
COCCEDING		. 							

SPECTRUM AVERAGE CRUSS SECTION = .1578E-02

TH-232(N, FISSION) U-235 FISSION SPECTRUM



TH-232(N.FISSION) U-235 FISSION SPECTRUM

E .	21 <i>G</i>	SIGP	PHI	SIG-PHI	F	·SIGP•PHI	G
.1300E 01	.1000E-01	.2000E 00	.3177E-03	.3177E-05	.1624E-03	.6353E-34	.3300E-02
.1400E 01	.6000E=01	.1333E 00	.3055E-03	.1833E-04	10225-02	•	.1677E-01
.1>00E 01	.7333E-01	. 1333E 00	.2930E-03	.2149E-C4	.30175-02		.2276E-J1
.1600E 01	1200E 00		.2605E-03	.3365E-04	5551E-02		.3593E-01
.1700E 01	.960UE-01	2400E 00	.2679E-03	.2572E-04	8511E-02		.2935E-J1
.1800E 01	.7200E-01	2000E 00	.2554E-03	.1839E-04	.1J71E-01	•	.2319E-01
.1900E 01	9200E-01	.2000E 00	.2432E-03	.2238E-04	.1275E-01		.2017E-01
.2000E 01	,1120E U	.5000E-U1	.2312E-03	.2590E-04	.1517E-01	.1156E-04	.3268E-01
.2100E 01	,1170E 00	,5000E-01	.2196E-03	.2569E-04	.1775E-01	.1098E-04	.3401E-01
.2200E 01	,1220E 00	4667E-01	.2083E-U3	.2541E-04	.2031E-01	9719E-05	3506E-01
.2300E 01	,1173E 00	-,4667E-01	.1973E-03	.2315E-04	2273E-01	-,9209E-05	.3411E-01
.2400E 01	,1127E 00	4667E-01	.1666E-03	.2105E-04	.2494E-01	-,8717E-05	.3321E-U1
.2500E 01	.1080E 00		.1767E-63	.1908E-04	.2694E-01	.7773E-05	.3230E-01
.2600E 01	11246 00		.1670E-03	,1877E-04	.2884E-01	.7346E-05	.3314E=01
.2700E 01	.1168		•1577E-03	.1842E-04	.3070E-01	.6937E-05	,33o5E•01
.2800E 01	.1212E 00		.1486E-03	.1803E-04	.3252E=01	.6547E-05	.3453E-01
.2900E 01	,1256E 00		.14032-03	.1762E-04	.3430E-01	.6174E-05	.3516E-01
.3000E 01	.1300£ 00		.1323E-03	.1719E-04	.3604E-01	.2116E-05	.3576E=01
.3100E 01	.1316E 00	• - • • - • -	.1246E=03	.1640E=04	.3772E-01	.1993E-J5	.3596E-01
.3200E 01	,1332E 00		.1173E-03	.1562E-04	,3932E-01	,1877E-05	.3616E-U1
.3300E 01	,1346E 00	,	.1104E-03	.1488E-04	.4085E-01	.1766E-05	.3634E-01
.3400E 01	.1364E 00		.1036E-03	.1416E-04	.4230E-01	.1661E-05	.3651E-01
.3500E 01	.1380E 00	,	.9762E-04	.1347E-04	.4368E-01	.9762E-06	.3667E-01
.3600E 01	.1390E 00		.9175E-04	.1275E-04	.4499E-01	.9175E-06	3676E-01
.3800E 01	,1400E 00		.8619E=04	.1207E-04	.4623E-01	.8619E-06	3685E=01
.3900E 01	.14205 00	,	,8095E=04	,1141E=04	4740E-01	.8095E-06	,3694E-01
.4000E 01	.1430E 00		7599E=04	.1079E=04	.4851E-01	.7599E=06	.3702E-01
.4100E 01	.1434E 00		.7132E=04	.1020E-04	.4956E-01	.2853E=06	.3709E=01
.4200E 01	.1438E 00		.6276E=04	.9024E=05	.5055E-01	,2676E=06	.3712E-01
.4300E 01	.1442E 00		.5884E-04	.6485E-05	.5148E-01	.2510E-06	.3714E=01
.4400E 01	.1446E UO		.5516E-04	.7976E-05	.5318E-01	,2354E-06	.3717E=01
.4500E 01	1450ë 00		.5169E=04	.7496E-05	_	10342-06	.3719E-ú1
.4600E 01	.1448E 00		.4843E-64	.7013E=05		9687E-07	.3721E=01 .3720E=01
.4700E 01	•	2000E-02	4537E-04	.6560E-05	_	9073E-07	.3719E=01
4800E 01	•	-,2000E-02	4249E-C4	.6135E-05		8497E-07	.3718E-01
.4900E 01		20U0E-U2	.3978E-04	.5736E-05	_	7956E-07	.3717E=01
.5000E 01		8000E-02	.3724E-04	.5362E-05		-,2979E-06	.3717E-01
.5100E 01	•	8000E-02	3465E-04	.4991E-05		2788E-06	.3714E-01
.5200E 01		8000E-G2	3261E-04	.4644E-05		2609E-06	.3711E-01
,5300E 01	•	-,8000E-U2	3051E-04	4320E-05		2441E-06	.3709E-01
.5400E 01		8000E-02	.2854E-04	.4018E-05		-,2283E-06	3706E-01
.5500E 01	.1400E UO	2000E-01	.2669E-04	.3736E-05		-,5338E-06	.3704E-01
.5600E 01	,1380E 00		.2496E-04	.3444E-05		4991E-06	.3699E=01
.5700E 01	.136UE 00		.2333E-04	.3173E-05		4666E-06	3694E-01
.5800E 01	.1340E 00	.3000E-01	.2161E-04	.2923E-05	.6038E-01	.6542E-06	.369JE-01
.5900E 01	.137UE 00	.3000E-01	.2038E-04	.2793E-05	.6067E-01	.6115E-06	.3696E-01
.6000E 01	.1400E 00	.2000E 00	.1905E-04	.2667E-05	.60 94F-01	3810E-05	.3702E=G1
.6100E 01	,1600E 00	,2000E 00	.1780E-04	.2848E-05	.6122E-01	.3560E-05	3739E-01
.62U0E 01	,1800E 00	,2000E 00	.1663E-04	.2993E-05	.6151E-01	.3326E-05	.3773E-01
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TH-232(N.FISSI2N) U-235 FISSION SPECTRUM

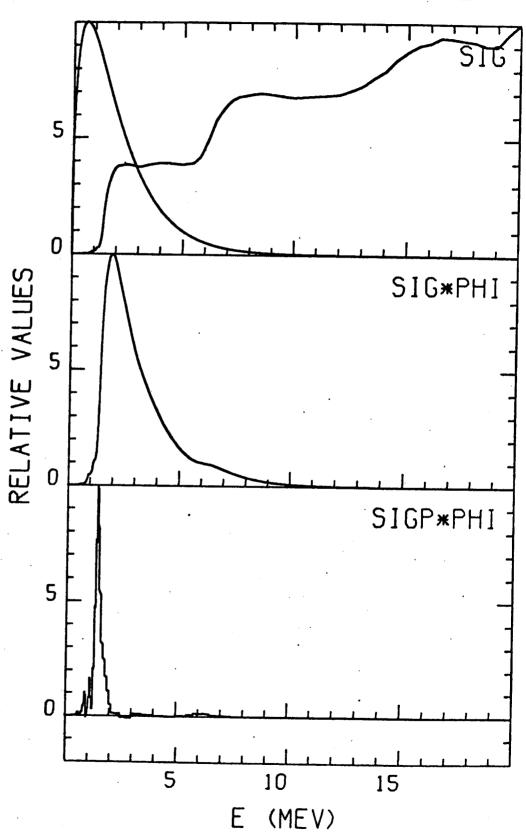
F '		SIG		SIGP	рні	SIG*PHI	•		
4300				• • •	• • •	PIGALMI	F	SIGP*PH1	G
.6300					.1553E-04	.3107E-05	.6181F-0	1 .3107E-05	76055
6400								_ , , _ , _	10002
,65001						.3252E-05			
.66008	_	,		,		.3374E-05			.3664E-U1
.67008		, 2933			.1161E-04	.3465E-05			.3699E-01
.68001	_	,32006			.1193E-04	.3529E-05			.3931E=01
.6900E		,3320E		122012 01	.1027E-U4	.3418E-05			.3961E-01
,70006		.3440		,	.9609E=05	.3305E-05			.3974E=01
.7100E		.3560E			.8968E-05	.3193E-05		1 1076E-05	.3986E-01
.7200E		3680E		-,7599E-01	.836yE-05	.3080E-05		1 -,6359E-06	.3997E-01
.7300E		.3604E			.7809E-05	.2814E-05	.6509E=n	5935E-06	4007E-01
.7400E		.3528E	0.0	-,7600E-01	.7266E-05	.2570E-05	6536E=01	-,5537E-06	.4001E-01
.7500E		34526	00	-,7600E-01	.67 Y7E-05	.2346E-05	.6561F=01	-,5166E-06	.3996E-01
.7700E		.33/6E	0.0	-,76LUE-01	.6341E-US	.2141E-05	.6583F-01	4819E-06	.3990E-01
78005		3300E	0.0	-,2000E-01	.5914E-U5	•1952E-05	6603E-01	1183E-06	.3981E-01
7900E		, 3 20 UE	0.0	2000E-U1	.5516E-05	.1809E-05	.6622E=01	1103E-U6	.3980E=01
. 3000E		,320UE	00	2000E-01	,5144E-05	•1677E-05	.6540E-01	1029E-06	.3978E-G1
.8100E		*3240E	0.0	1333E-01	4797E-05	.1554E-05	.6656E-01	-,6396E-97	.3977E-01
.5200E	_	, 322/E	0.0	1333E-01	.4473E-05	•1443E - 05	.6671E-01	5964E-07	3977E-01
.8300E		102105	0.0	-,1333E-01	4171E-05	.134CE-05	.6685E-01	5561E-07	.3976E-01
.8400E		,32006	0.0	-,3143E-01	.3688E-05	.1244E-05	.6698E-01	1222E-06	3976E-01
.8500E		101075	00	3143E-01	.3625E-05	•1149E-05	.6709E=01	-,1139E-06	.3975E-01
.8600E		.313/E	00	3143E-U1	.3379E-U5	.1060E-05	.6720E-01	1062E-06	.3973E-01
.8700E		10745	0.0	-,3143E-01	.3150E-05	•9782E-06	.6731E-01	-,9899E-07	.3972E-01
.6800E		7043	0.0	3143E-01	.2936E-05	.9026E-06	.6749E-01	9227E-07	.3971E=01
6900E	01	70116	00	3143E-U1	.2736E-U5	.8326E-06	.6749E=01	-,8599E-07	3971E-01
90008		- 2011E	00	3143E-61	.2550E-05	.7679E-06	.6757E-01	8014E-07	3970E-01
.9100E		2045	0.0	-,1500E-01	.2376E-05	.7081E - 06	.6764E=01	-,3565E-07	.3969E-01
.9200E	01	20505	0.0	1500E-01	.2214E-05	.6565E - 06	6771E-01	-,3321E-07	3969E-01
.9300E		20365	0.0	1500E-01	.2063E-05	.6086E-06	.6777E-01	3095E-07	3968E-01
9400E		20205	0.0	1500E-01 1500E-01	.1922E-05	.5642E-06	.0783E=01	2883E-07	3968E-U1
9500E	01	22055	0.0	- 1500E-01	.1791E-05	.5229E-06	.6789E-01	-,2686E-07	3968E-01
9600E		127075	6.3	1500E-01 1500E-01	.1668E-05	•4847E-06	,6794E-01	-,2503E-07	.3967E-01
9700E		24755	0.0	-,1500E-01	.1554E=05	.4491E-06	.6798E-01	-,2331E-07	.3967E-01
	01				.1446E-05	.4162E-06	.6303E-01	2172E-07	.3967E-01
	01		n n	-,1500E-01 1500E-01	.1346E-05	.3857E-06	.6807E-01	-,2023E-07	.3967E-01
	02	.2030E	0.0	1003E-02	.1256E-05	•3573E-06	.6810E-01	1884E-07	3967E-01
	02	24205	C D	1003E-02	.1170E-05	.3310E-06	.6314E-01	-,1173E-08	.3966E-01
	02	. 24285	u u	1000E-02	.1069E-05	.3082E-06	.6817E-01	1089E-08	.3966E-01
· : : : :	02	.26275	11 II .	-,1000E-02	.1014E-05	.2869E-06	.68205-01	1014E-08	.3966E=01
•	02	.20266	00	-,1000E-02	.9447E-06	.2671E-06	.5323E-01	9447E-09	.3966E=01
.1050E		28256	nn .	1000E-02	.8797E-06	.2486E-06	.6525E-01	8797E-09	.3966E-01
.1060E		.2824E	nn.	1000E-U2	,8191E=06	.2314E-06	.6828E-01	8191E-09	.3966E-01
.1070E				1000E-02	.7627E=06	.2154E-06	.6330E-01	-,7627E-19	.3966E-01
.1080E	02			1000E-02	.7101E-06	.2005E-06	.6832E=01	7101E-09	.3966E-U1
.1090E	02	,2821E		1000E-02	.6611E-06	.1866E-06	.6834E-01	6611E-09	.3966E-01
.1100E		.2950E		.8997E-02	,6154E=06	•1736E-06		-,6154E-09	.3966E-U1
	02	.2029E		.9000E-u2	•5724E=06	.1616E-06	.6437E-01	.5155E-08	.3966E-01
.1120E		.2838E		.9000E-02	.5333E=06	.1509E-06	.69395-01	.4800E-98	.3966E-U1
· - · -	_	, , , , , , , , , , , , , , , , , , , ,		1,0005-05	.4965E-06	.1409E-06	.6840E-01	.4468E-08	.3966E=01

E	SIG	SIGP	PHI	SIG*PHI	F		_
	-	0. 0.		SIGALUI	•	SIGP*PHI	G
.1130E 02		,9000E-02	.4621E-06	.1316E-06	.6842E-01	,4159E-08	70445-34
1140E 02	,			-1226E-06		3871E-38	.3966E-01
.1150E 02	,	.9000E-62	.4003E-06	.1147E-06		.3603E-08	.3967E=u <u>1</u> .3967E=01
.1160E 02	, - •	7 - 7 - 7 - 7 -	.3726E-06	.1071E-05	.6845E=01	.3353E-08	.3967E-01
.1170E 02	,		.3460E=06	.9997E-07	.6946E-01	31215-08	.3967E=01
.1180E 02			.3227E-06	.9332E-07	.6847E-01	.2904E-08	.3967E-01
.1190E 02	,		.3603E-06	.d712E-07	.5848E=91	.2703E-08	.3967E-01
.1200E 02	.2910E 00		.2795E-06	.8132E-07	,6849E=01	.8102E-78	.3967E-U1
.1220E 02	,2939E 00		.2600E-06	.7643E-07	.6850E-01	.7541E-03	.3967E-01
.1230E 02	.2968E 00	.2900E-01	.2420E-06	.7182E-07	.68 51E- 01	.7017E-08	.3967E-01
.1240E 02	.2997E 00	.2900E-01	.2251E=06	.6748E-07	.6651E=01	.6529E⇒08	.3967E-01
1250E 02	30556 00	.2900E-01	2095E-06	.6339E-07	.6852E-01	.6075E - ე8	.3967E=01
.1260E 02	3084E 00	.2900E-01	1949E=06	.5955E-07	.6853E-01	.5652E-118	.3967E-01
.1270E 02	,3113E 00	.2900E-01	.1813E=06	.5593E-07	.6853E-01	,5259E-08	.3967E-01
.1280E 02	31425 00	.2900E-01	.157UE-06	.5252E-07	+6354E=01	.4893E-08	.3967E-01
.1290E 02	.3171E 00	2900E-U1	.146UE-06	.4932E-07	.6854E-01	.4552E-08	.3967E-0 <u>1</u>
.1300E 02	,3200E 00	4000E-01	.1350E-06	.4347E=67	.6355E-01	.4235E-08	.3967E-01
.1310E U2	,3240E 00	.4000E-01	.1264£=06	.4094E-07	.6355E=01	.5433E-08	.3967E-01
.1320E 02	.3280E 00	.4000E-01	.1175E-06	.3855E-07	.6956E=01	.5054E=08	.3967E-U1
.1330E 02	.3320E 00	.4000E-01	.1093E-06	.3630E-07	.6456E-01	.4702E-08	.3967E-01
.1340E 02	.3360⊨ 00	.4000E-G1	.1017E-06	.3417E-07	.6857F=01	.4068E-08	.3967E-01
1350E 02	.3400E 00	.4000E-01	.9459E-07	.3216E-07	.6357E-01	.3784E-08	.3967E-01
.1360E 02	,3440E 00	.4000E-01	.8798E-07	.3027E-07	.6857E=01	.3519E-08	.3968E=01
.13/0E 02	3480E CO	.40u0E-u1	.8183E-07	.2848E-07	.6558E-01	3273E-08	.3966E=01
.1380E 02	.3520E 00	.4000E-01	.7611E-07	.2679E-07	.6858E-01	3044E-08	.3968E-01
.1390E 02	,35602 00	.4000E-01	.7078E=67	.2520E-07	.6858E-01	.2831E-08	.3968E-01
.1400E 02	.3600E 00	•5499E-01	.6503E-07	.2370E-07	.68586-01	.3620E=98	.3968E-01
.1420E 02	3655E 00	.5500E-01	.6122E-07	.2238E-07	•6859E=U1	,3367E=08	3968E-J1
.1430E 02	.3710E UO	.5560E-01	.56 93E=07	.2112E-07	.6059E-01	,3131E-08	.3963E-01
.1440E 02	38206 00	,5500E=01	.5294E-07	.1993E-07	.6859E-01	.2912E-08	.3968E=01
1450E 02	.3d75E UU	.5500E-01	4923E=07	•1881E-07	.6359E-01	.2708E-08	.3968E-01
1460E 02	.3930E UU	.5550E=01	.4578E-07	1774E-07	+5059E=01	.2518E⇒08	.3900E-01
.1470E 02	3985E 00	.5500E-01	.4257E=07	•1673E-07	.6860E-01	.2341E=08	.3964E-U1
.1480E 02	4040E UO	.5500E-01	.3959E=07 .3681E=07	.1578E-07	.6360E-01	.2177E-08	.3968E-01
.1490E 02	.4095E 00	.5500E-01	.3422E-07	.1487E-07	.6660E-01	.2024E-18	.3968E-01
.1500E 02	.4150E 00	.2342E-01	.31 52E=07	.1402E-07	.6860E-01	.1882E-08	.3968E-01
.1510E 02	.4173E 00	.2341E-01	.2959E-07	.1235E-07	.6360E=01	.7454E-09	.3968E-01
.1520E 02	.4197E 00	.2341E-U1	.2751E-07	•1154E-07	.6860E-01	.6925E-09	.3965E-01
.1530E 02	.4220E 00	.2341E-01	.2558E-07	.1079E-07	.6960E=01	.6439E-09	3958E-31
.1540E 02	.4244E UÜ	.2341E-01	.2378E-07	.1009E-07	.6661E=01	,5986E-09	.3966E-01
.1550E 02	.4267E CO	.2341E-01	.2211E-07	.9433E-U8	.6361E=01	.5565E-09	,3968E-U1
.1560E 02	,4290 ± UO	.2341E-01	.2055E-07	.5817E-08	.6861E=01	,5174E=09 ,4610E=09	.3968E=01
.1570E 02	,4314E OC	.2341E-01	.1911E-C7	.6242E-08	.6861E=01	.4472E=09	.3963E=01
.1580E 02	.4337E 00	.2341E-01	.1776E-07	.7703E-08	.6361E=01	.4157E=09	.3968E=01
.1590E 02	.4361E 00	.2341E-01	.1651E-07	.7200E-08	.6061E=01	.3864E=09	.3968E-01
.1600E 02	,4384E 00	.2341E-01	.1535E-07	.6729E-06	.5861E-01	.3592E=09	.3966E=01
,1610E 02	,4407E UO	.2341E-01	.1427E=07	.6288E-08	.6561E-01	.3339E-09	.3968E-01
.1620E 02	.4431E 00	.2341E-01	.1326E-07	•5876E-08	.6861E-01	.3104E-09	.3968E-01

E	SIG	SIGP	PH I	SIG•PHI	F	SIGP*PHI	G
.1630E 02	,4454E 00	.2341E-01	.1233E-07	.5491E-08	.5961F-01	.2885E-09	.3965E=01
.1640E 02	.4478E 00	.2341E-01	.1145E-07	.5131E-08	.6061E=01	.2682E-09	.3965E-01
.1650E 02	,4501E 00	.2341E-01	.1065E-07	.4794E-08	.5861E-01	.2493E-09	.3966E-01
.1660E 02	.4524E 00	.2341E-01	86-300 99 .	.4479E-08	.6861E-01	23175-09	.3968E-01
.1670E 02	.4548E 00	.2341E-01	.92U2E=08	.4185E-08	,6061E=01	.2154E-09	.3965E-J1
.1680E 02	.4571E 00	,2341E-01	.8553E - U&	.3910E-U8	.6062E-01	.2002E-09	3960E-01
.1690E 02	・ 4ラ 95E - 0 0	.2341E=01	.7949E-C8	.3652E-06	,6962E-01	.1861E-n9	.3968E-C1
.1700E 02	.4618E GU	,2341E-U1	.7355E − 08	.3412E-08	.6062E-01	.1729E-09	3960E=01
.1710E 02	.4642E UG	.2341E-01	.6867E - Ub	.3187E-08	.6862F-01	.1607E-09	.3968E=01
.1720E 02	.4665E UU	,2341£-01	.6382E-08	.2977E-08	.6562E-01	.1494E-09	.3960E-01
.1730E 02	.4668£ 00	.2341E-01	.5931E-08	.2781E-08	.6862E=01	.1388E-09	.3968E-01
.1740E 02	,4712E CO	,2341E-u1	.5512E-06	.2597E-08	.6862E-01	.1290E=09	.3968E-01
1750E 02	,4735E 00	.2341E-U1	.51235-08	.2426E-08	.6362H-01	.1199E-09	.3968E-01
.1760E 02	.4759E 00	.2341E-01	.4761E-06	.2265E-08	.6462E-01	.1114E-09	.3968E-01
.1770E 02	.4782E UO	.2341E-01	.4424E-J8	.2116E-08	.6862E-01	.1036E-09	.3968E-U1
1780E 02	.4805E 00	.2341E-01	.4111E-08	.1976E-08	.6562E-01	.9623E-10	.3968E-01
.1790E 02	.4829E 06	.2341E-01	.3821E-08	•1845E-08	.63622-01	.8942E-10	.3968E=U1
.1800E 02	,4852E 00	.2341E-01	.355UE-08	.1723E-08	.6362E=01	.8310E-10	.3968E-01
.1810E 02	4076E UO	.2341E-01	,3297E-03	.1609E-08	,5862E=01	.7722E-10	.3960E-01
,1820E 02	.4699E UO	,2341E-01	.3066E=08	.1502E-0ธ	.6062E=01	.7176E-10	.3968E-01
.1830E 02	,4922E 00	.2341E-U1	.2849E-08	.1402E-08	.6ñ62E-01	.6668E-10	.3968E-01
1840E 02	.4946E UU	.2341E-01	.2647E-0d	.1309E-08	.6062E=01	.6196E-10	.3968E-01
.1850E 02	.4969E 00	.2341E-01	.24ouE-08	.1222E-08	.6862E-01	.5757E-10	,3968E-01
.1860E 02	.4993E 00	,2341E-01	.2286E-05	.1141E-08	.6862E-01	.5349E-10	.3963E-01
.1870E 02	,5016E UO	.2341E-01	,2124E-08	.1065E-08	.0d62t-01	.4971E-10	.3966E-U1
.1880E 02	,5039E CO	.2341E-U1	.1973E-08	.9944E-D9	. რს62E-01	.4618E-10	.3963E-01
.1890E 02	.5063E 00	,2341E-01	.1833E-08	.9282E-09	.5862E-01	.4291E-10	.3968E-L1
.1900E 02	,5086E 00	.2341E-01	.1753E-06	.8664E-09	.6062E-01	.3987E-10	.396dE=u1
.1910E 02	,5110E 00	.2341E-01	.1583E-08	.6087E-09	.6862E=01	,3705E-10	.396bE=U1
.1920E 02	,5133E 00	.2341E-01	.1471E-08	.7548E-09	.6º62E-01	.3442E-10	.3966E-01
.1930E 02	,5156E 00	,2341E-01	.1366E-08	.7045E-09	.6862E=01	.3198E-10	.3966E-01
.1940E 02	.5180E 60	.2341E-01	.1269E-08	6575E-09	.6562E-01	.2971E-10	.3968E-01
.1950E 02	.5203E 00	.2341E-01	,1179E-06	.6136E-09	.6662E=01	.2760E-10	.3968E=01
,1960E 02	5227E 00	,2341E-01	.1076E-08	.5727E-09	.6862E-01	,2564E-10	.3968E-01
•1970E 02	,5250E 00	.2341E-01	.1015E-08	.5344E-09	.6862E-01	.2383E-10	.3968E-J1
.1980E 02	.5273E 00	.2341E-01	.9457E-09	.4987E-09	.6862E-01	.2213E-10	.396dE-01
,1990E 02	,5297E UO	,2341E-01	.8786E-09	.4654E-09	.6962E-01	.2056E-10	.3968E-C1

SPECTRUM AVERAGE CRESS SECTION = .6862E-01





ε	SIG	SIGP	PH I	SIG+PHI	F	SIGP*PHI	G
.1000E 00	,4000E=04	.1500E-03	.2197E-03	.0788E-08	.7222E-06	1205E_07	-,3063E-06
.5000E 00	,5500E-04	.1500E-03	.2879E=U3	.1584E-07	.19568-05	.4319E-07	.3558E=05
.3000E 00	.7000E-04	.5200E-03	.3268E=03	.2287E-07	3596E=05		.8316E=05
.4000E 0U	,1220±-03	.1120E-02	.3497E-03	.4266E-07	./173E=05	3916E-06	.2618E=04
.5000E 0i	,2340E=u3	.4427E-u2	.3623E=03	.8477E-07	1355E-04	,1604E-05	.6733E=04
.6000E 00	.1647E=62	.1926E-01	,3675E=93	.3852E-06	.3207E-04	7062E-05	.3708E+03
.7000E 00	.1346E-02	.1290E-61	.3681E-03	.4933E=06	.7910E-04	.4749E-05	.4761E=03
.8000E 00	,3116E-U2	.5>10E-01	.364/E-03	.1136E-05	.1566E-03	.2009E-04	.1142E-02
.9000E 00	.1007E-31	,1356E UO	.3584E-03	.3610E-05	.3783E-03	.4861E-04	.3684E-02
.1000E 01	,1617E=61	.3898E-01	.3501E-03	.5661E-05	.9009E-03	.1365E-04	.5824E=J2
.1100E 01	,2350E-01	.2278E 00	.3403E-03	.7997E-05	.1557E-02	.7753E-04	.8411E-U2
.1200E 01	40496-01	.4216E-01	.3294E-U3	•1334E=04	,2678E-02	.1389E-04	.1405E-01
.13U0E 01	.5772E-01	,7113E 00	.3177E-03	.1834E-04	.4162E-02	.2260E-03	1901E-01
.14U0E 01	.1512E 00	.1546E 01	.3055E-03	.4621E-04	.7248E-02	.4724E-03	.4913E-01
.1500E 01	12939E UD	.8641E 00	.2936E-03	.8611E-04	.1400F-01	.2591E-03	9165E=01
.1600E 01	.30232 00	,5465E 0U	,28u5E=u3	•1072E-03	.2370E-01	.1533E-n3	.1169E 00
.1700± 01	.4369E 00	.4453E UU	.2679E-03	.1171E-03	.3493E-01	.1193E-03	.1319E 0U
.1800E 01	4815- 00	3223E 00	.2554E-03	.1230E-03	.4694 ⋶ −0 <u>1</u>	.8232E-n4	.1435E UO
.1900E 01	5137E 00	.2139E 00	-2432E=03	•1249E-03	•5935E=01	.5203E-04	.1515E UU
.2000E 01	.5351E 00	.1011E 00	,2312E-03	•1237E-03	,7178E-01	.2339E-04	.1565E 00
.2200E 01	5452E 00	.2401E-01	.2195E-03	•1197E-03	•6395E-01	.5273E-05	.1583E 00
.2300E 01	.5476E 00	.2401E-01	.20d3E-03	.1140E-03	·9563E-01	.5001E-05	.1593E UQ
.2400E 01	,5500E 00 ,5524E 00	.2401E-01	.1973E-03	.1085E-03	.1068E 00	.4738E-05	.1598E 00
.2>00E 01		.2401E-01 2001E-01	.1668E-03	.1032E-03	.1173E 00	.4485E-05	.1602E 00
.2600E 01	·	2001E-01	.1767E=C3	.9802E-04		-,3535E-05	.1607E 00
.2700E 01		-,2001E-01	.1670E=03 .1577E=03	•9229E=04	.1369E UO	3341E-05	.1603E 60
.2800E 01		-,3122E-01	.1488E-03	.0684E-04	•1459E 00	3155E-05	.1600E 00
.29U0E 01		3122E-01	.1403E-03	.7649E-04	1543E 00	4645E-05	.1596E 00
.3000E 01		-,7351E-02	.1323E=03	.7168E-04	.1622E 00	438UE-05	.1592E 00
.3100E 01	5413E 0U	.3392E-01	.1246E-03	.6743E-04	.1696E 00	-,9722E-06	.1587E 00
.3200E 01	5446E UU	.3393E-01	.1173E=03	.6389E-04	.1765E 00 .1431E 00	.4226E-05	.1587E 00
.3300E 01	5480E 00	.3393E=01	.1164E-03	.6049E-04	.1693E 00	.3745E-05	.1591E 00
.3400E 01	.5514E 00	.3392E-01	.1033E-03	.5725E-04	.1952E 00	.3522E-05	.1594E 00
.3500E 01	.5540E UU	.21y5E-31	.9762E-64	5416E-04	.2008E 00	.2142E-95	.15 98E 00
.3600E 01	,5570E UC	.2195E-01	9175E-04	.5111E-04	.2060E DO	2013E-05	.1604E OC
.3700E 01	,5592E OU	.2195E-01	.8619E-04	.4820E-04	.2110E 00	1892E-J5	.1606E 90
.3800E 01	.5614E UO	.2195E-01	. 86 95E-04	.4544E-04	.2157E 00	1776E-05	.1607E 00
.3900E 01	.5636E UU	,2195E-01	.7599E-U4	.4283E-04	.2201E 00	.1668E-05	.1609E 00
.4000E 01	,565b£ CO	4879E-u2	.7132E-04	.4035E-04		3480E-u6	.1011E [J
.4100E 01	.5653E 00	-,4880E-02	.6691E-U4	.3783E-04		3265E-06	.1610E 00
.420UE 01	.5048E 00	4080E-62	.6276E-04	.3545E-04		3063E-06	.1610E)0
,4300E 01		-,4d80E-02	.5684E-04	.3321E-04		-,2872E-06	.1610E UU
.4400E 01	,5638E 00		.5516E-04	.3110E-04		-,2692E=06	.1609E CO
.4500E 01	.5634E 00		.5169E-04	.2912E-04		8996E-06	.1609E 00
4600E 01	,5616E 00		.48435-04	.2720E-04		8429E-06	.1608E 00
.4700E 01	.5599E 00		.4537E-04	.2540E-04		7896E-06	.1608E 00
.4800E 01	,55816 00 ·		.4249E-U4	.2371E-04		7394E-06	.16J7E UO
.49U0E 01		1740E-01	.3970E-04	.2213E-04	.2316E 00	-,6923Ë-06	.1606E UO
,5000E 01	.5547E UU	,2446E-01	.3724E-04	.2065E-04	.2538E 00	.9108E-06	.1605E 00

Ł	SIG	SIGP	₽Н[SIG•PHI	F	SIGP*PHI	G
.5100E 01	,5571E Cu	,2446E-01	.3455E-04	.1942E-04	.25588 00	.8524E-06	.1606E 30
.>200E 01	5595E 00	.1530E-01	3261E-04	.1825E-04	.2577E. 00	.4989E-u6	.1607E 00
,>300E 01	36118 00	.1530E-01	3051E=04	.1712E-04	.2594E 00	.4668E-06	.1608E 00
,5400E 01	5626E UO	.2876E-01	.2654E-04	.1606E-04	.2611E 00	.8264E-06	.1608E 00
.5500E 01	.5655E UU	.1268E CO	.2669E-04	.1509E-04	.2526E 00	3385E-05	.1609E 00
,5600E 01	.5782E 00	.1269E JO	.2496E-U4	.1443E-04	.2541E 00	.3166E-U5	.1612E 00
.5/UUE 01	.5909E UO	.1269E 00	.2333E-04	.1379E-04	.2655E 00	.2960E=35	.1615E Jú
.58UOE 01	.6636E 00	,2832E 00	.2131E-04	.1316E-04	.2569E 00	6285E-35	.1616E Cu
.5900E 01	.6324E 60	.2#82E UO	.2038E-04	.1289E-04	.2582E 00	5875E-05	.1624E QC
.6000E 01	.6612E 0u	.3J99E J0	.1905E-U4	.1260E-04	.2695E 00	.5904E-05	.1630E 00
.6100E 01	,6922 <u>±</u> U0	.3099E 00	,17oUE=04	.1232E-04	.2707E 00	,5516E-05	.1636E 60
.6200E 01	.72328 60	.3733E UU	.1663E-04	.1203E-04	.2719F 00	,6207E-05	.1641E CJ
.6300E 01	.7605E GC	.3733E Qü	,1553E-04	.1181E-04	.2731E 00	•5799E - 05	.1647E UJ
.64UOE 01	.7973E UU	.3733E ¢0	.1451E-04	.1158E-04	.2743E 00	.5416E→05	.1652E ûV
.6500E 01	.83525 00	.2061E 00	.13>>E=04	.1132E-04	.2754E 00	,2793E - 05	.1658E 00
.6600E U1	,4550E 00	.2061E 00	.1255E=04	.1083E-04	•2765E 00	.2608E-05	.1660E UG
.67UOE 01	.8764£ U0	.2061E 00	.1181E-34	1035E-04	.2775E 00	,2435E-05	.1603E 00
.6800E 01	.3970E 0U	.1650E 00	.1103E=04	.9893E-05	.2786E 00	.1820E-05	.1665E UU
.6900E 01	,9135E 00	.105UE 00	.1029E=04	.9404E-05	.2796E 00	.1699E-05	.1667£ Gu
.7000E 01	,930GE 00	.1350E 00	.9604E-05	£936E-05	•2305E 00	,1297E-05	.1669E UU
.7100E 01	.9435E 00	.1350E UG	.6900E-05	.6461E-05	.2814E 00	,1211E-G5	.1670E JO
,7200E 01	.9570E 00	,7000E-01	.8369E-05	.8009E-05	.2822E 00	.5858E=96	.1671E UU
.7300E 01	,9640E 00	.7000E-01	.78098-05	.7528E-05	,2830E 00	.5466E-06	.1672E 00
.7400E 01	,9710E 00	.7000E-01	.7236E-05	.7074E-05	•2837E 00	.5100E-06	.1672E 00
.7500E 01	,978GE 00	.2400E-01	.6747E=05	.6647E-05	.2844E 00	·1632E-06	.1673E 00
,7600E 01	9504£ 00	.2400E-01	.6341E=05	.6216E-05	.2550E 00	.1522E-06	.1673E UO
.7700E 01	.9828E 00	.2400E-01	.5914E-05	•5812E-05	.2556E 00	.1419E=06	.1673E 00
.7800E 01	.9852E 00	.2400E=01	.5516E=C5	.5434E=05	.2362E 00	.1324E=06	.1673E 00
.80006 01	.9900E 00	.2400E=01	.5144E=05	.5081E-05	.2867E 00	.1235E-06	.1673E 00
.8100E 01	.9924E UU	.2400E-u1	.4797E-U5	.4749E-05	.2872E 00	.1151E-06	.1673E UJ
.8200E 01	.99482 00	.24J0E-01	.4171E-05	.4149E-05	.2576E 00	.1074E-06	.1673E 00
.8300€ 01	.9965E 00	.1600E=01	.3898E-05	.3876E-05	.2985E 00	.6222E-07	.1674E 00 .1674E 00
.8400E 01	.9984E 00	.1600E-01	.3625E=05	.3619E-05	.2889E 00	.5800E-07	.1674E 00
.6>00E 01	•	1200E-01	.3379E=05	.3379E-05		4054E-07	.1674E U0
,6600E 01		-,1200E-01	.3150E-05	.3146E-05		3780E-07	.1674E 00
8700E 01		-,1200E-01	2936E-05	.2929E-05		3523E-07	.1674E 30
8800E 01		-,20u0E-u1	.2736E-05	.2725E-05		5472E-07	.1674E UU
.8900E 01		2000E-61	.2550E-05	.2535E-05		5100E-07	.1674E UO
.9000E 01	•	-,2000E-01	2376E-J5	.2357E-05		4752E-07	.1674E UU
.9100E 01		2000E-01	.2214E-05	.2192E-05		4428E-07	.1673E 00
.9200E 01	•	2000E-u1	.2063E-05	.2038E-05		4126E-07	.1673E UU
.9300E U1		2000E-01	.1922E-05	.18955-05		3844E-07	.1673E 00
.9400E 01		2000E-01	1791E-05	.1762E-05		3582E-07	.1673E 00
.9500E 01		2000E-u1	1660E=05	.1638E-05		3337E-37	.1673E UQ
,9600E 01	•	2000E-01	.1554E-05	.1523E-05		3108E-07	.1673E 00
.9700E 01	•	2000E-01	.144dE-05	.1416E-05		-,2895E-07	.1673E UO
,9800E 01		1260E-61	.13436-05	.1317E-05		-,1618E-07	.1673E GU
.9900E 01		1200E-01	.1256E-05	.1225E-05		1507E-07	.1673E 00
.1000E 02	,9740E 00	.7996E-02	.117UE-05	.1139E-05	.2923E 00	,9353E-08	.1673E 00

E,	SIG	SIGP	PHI	SIG*PHI	F	SIGP*PHI	G
.1010E 02	.9748E 00	02-02نن8.	.105yE-05	.1062E-05	.2924E 00	.8715E-08	.1673E DO
.1020E 02	9756E 00	.80u0E-02	.1014E-U5	.9897E-06	2925E 00	.8116E-08	.1673E JU
.1030E 02	9764E 00	.80u0E=02	.9447E-00	.9224E-06	.2926E 00	.7558E-08	.1673E 0J
.1040E 02	9772E 60	.8000E-J2	.6797E-06	.£596E-06	.2927E 00	.7038E-08	.1673E 00
.1050E 02		,1000E-01	.8191E-06	.6011E-06	.2928E 00	.8191E-08	.1673E UU
.1060E 02	,9790E 00	.1JCGE-01	.7627E-06	.7466E-06	.2929E 00	.7627E-08	.1673E 00
.1070E 02	. 2000E UU	.10J0E-91	.71U1E-06	.6959E-06	.2929E 00	.7101E-08	.1673E 00
.1080E 02	,9310E 00	,100GE-01	.6611E=06	.6495E-06	.2930E 00	.6611E-08	.1673E 00
.1090E 02	.9c2UE UU	.1uuVE-t1	.61546-06	.6044E-06	.2731E 00	,6154E-08	.1673E 00
.1100E 02	.9o3uE 00	.80J1E-u2	.5729E=06	.5632E-06	.2931E GO	.4584E-08	.1673E 00
.1110E 02	,98 3 8Ë 00	.80JUE-U2	.5333E-06	.5247E-06	.2732E 00	,4267E-08	.1673E UU
,1120E 02	, 7846E UU	.8030E-02	.4965E-06	.4888E-06	.2932E 00	.3972E-08	.1673E JO
.1130E 02	.9354E 60	.8000E-02	.4621E-06	.4554E-06	.2933E 00	.3697E-08	.1673E 00
.1140E 02	,9362E 00	.8000E-02	.4301E-06	.4242E-06	.2933E 00	.3441E-08	.1673E 00
.1150E 02	.9570E 00	.1600E-01	.4003E-06	.3951E-06	.29338 00	.6404E-08	.1673E 00
.1160E 02	.9866E DU	.1500E-01	.3726E=06	.3693E-06	.2934E 00	.5961E=08	.1673E 00
.1170E 02	.9902E 00	.1500E-01	.345dE=00	.3434E-06	.2934E 00	,5548E=08	.1673E 0J
.1180E 02	.9918E 00	.1600E-01	.3227E-06 .3003E-06	.3201E-06	.2935E 00	.5163E=08	.1673E 00
.1190E 02	9959E 00	.4799E-01	.2795E-06	.2781E-06	.2935E 00	.1341E-J7	.1673E 00
.1210E 02	.9996E UU	.4000E-01	.26JJE-06	.2600E-06	.2935E 00	1248E-07	.1673E 00
.1220E 02	1005E U1	.4000E-01	.2420E-06	.2431E-06	.2936E 00	.1161E-07	.1673E UU
.1230E 02	1009E U1	.4800E-01	.2251E-06	2273E-06	.2936E 00	.1081E-07	.1673E 00
.1240E U2	1014E 01	.4300E-01	.20 95E - 06	.2125E-06	.2936E 00	.1006E-07	.1673E 30
.1250E 02	.1019E 01	5560E-01	1949E-06	.1986E-06	.2936E UO	,1130E-07	.1673E 00
.1260E G2	.1025E 01	.5000E-01	.1813E-U6	.1858E-06	29375 00	.1052E-07	.1673E 00
,1270E U2	.1031E 01	.5600E-01	.1607E-06	.1739E-06	.2937E 00	.9785E-08	.1673E 50
.1280E 02	,1036E 01	.5800E-01	.157uE-06	.1627E-06	.2937E 00	.9104E-08	.1673E 00
.1290E 02	1342E 01	.5800E-01	.1460£-06	.1522E-06	.2937E 00	.8469E-U8	.1673E UU
.1300E 02	,1048E 01	.9y98E-U1	,1353E-06	.1424E-06	.2937E 00	.1358E-n7	.1673E 00
.1310E 02	.1058£ 01	,1000E UO	.1264E-06	.1337E-06	.2937E 00	.1264E-07	.1673E 00
.1320E 02	.1068£ 01	.1000E 00	.1175E-06	·1255E-06	.2937€ 00	.1175E-07	.1673E 00
,1330E 02	.1078E U1	.1000E 03	.1093E-06	.1179E-06	129386 00	.1093E-07	.1673E 0J
.1340E 02	,1088E 01	.1000E 00	.101/E-06	.1106E-06	.2938E 00	.1017E-07	.1673E UU
.1350E 02	1098E C1	.84u1E-01	.9454E-07	.1039E-06	.2938E 00	.7947E-08	.1674E 00
.1360E 02	.1106E 01	.840 UE-01	.8796E-07	•9735E-07	.2938E 00	.7391E=08	.1674E 00
.1370E 02	.1115ê U1	.8400E-01	.6183E-07	.9123E-07	.2938E 00	,6874E=08	.1674E UU
.1380E 02	.1123E 01	.8400E=01	.7611E-07	.8549E-07	.2938E 00	.6393E-08	.1674E 00
.1390E 02	.1132E 01	.8400E-01	.6553E=37	.7505E-07	.2938E 00	.9214E-08	.1674E JO
.1410E 02	.1154E U1	.1400E 00	.6122E-07	.7065E-07	.2938E 00	.8571E=08	.1674E 0J
.1420E 02	.1168E U1	.1400E UC	.5693E=07	.6650E-07	.27386 00	.7971E-08	.1674E 00
1430E 02	.11026 01	.1400E 00	.5294E-07	.6258E-U7	.2938E 00	.7412E=08	1674E JU
.1440E 02	.11962 01	.1400E 00	.4923E=07	.5888E-07	.2939E 00	.6893E-08	.1674E 00
.1450E 02	1210E 01	9992E-01	.4578E-07	.5540E-07	2939E 00	.4575E-08	1674E 00
1460E 02	.1220± 01	9990E-01	4257E-07	.5194E-07	29395 00	4253E-18	.1674E 00
.1470E 02	.1230E U1	9990E-01	3959E-07	.4869E-07	.2939E 00	3955E-08	.1674E 00
.1480E 02	.1240E U1	9990E-U1	.3631E-07	.4564E-07	.2939E 00	.3677E-08	.1674E 00
.1490E 02	1250E 01	9490E-01	.3422E-07	.4278E-07	,2939F 00	.3419E-08	.1674E UO
.1500E 02	1260E 01	7451E-01	3102E-07	.4009E-07	.2939E 00	,2498E-08	.1674E 00
	,	• •== •=				· • •	

E .	SIG	SIGP	PHI	SIG*PHI	F	SIGPOPHI	G
.1510E 02	,1268E 01	.7850E-01	.2959E-07	.3751E-07	.2939E	00 .2323E-08	.1674£ úi
.1520E 02	.1270E UI		.2751E-07	.3509E-07	2739E.		.1674E UU
,153UE 02	.1263c UI		.2558E-07	.3283E-07	2939E		.1674£ 00
.1540E 02	1291E 01		.2373E-07	.3071E-07	-	00 .1867E-18	.1674E 00
.1750E 02	12996 01		.2211E-07	.2872E-07		00 ,7301E=09	.1674E 00
.1500E U2	.1302E 01		.2055E-07	.2677E-07		00 6782E-09	.1674E UU
.1>70E 02	.13062 01	.3300E-01	.1911E-07	.2495E-07		00 .6305E-09	.1674E 00
.1580E 02	.1309E U1	1 .3350E-01	.1776E-07	.2325E-07		00 5861E-09	.1674E 00
.1590E U2	.1312E 01	3300E-01	1651E=07	,2167E-07		00 5449E-09	.1674E 20
.1600E 02	13165 01	. 6722E-01	,1535E-07	.2019E-07	· · · · · ·	00 ,1032E-08	.1674E 03
.1610E 02	,1322E 01	.6724E-01	.14275-07	.1887E-07	· ·	00 .9593E-09	.1674E ú0
.1620E U2	,1329E 01	.6724E-01	.1326E-07	.1763E-07	-	00 .8918E-09	1674E 00
.1630E 02	.1336£ U1	.6724E-01	.1255E-07	.1647E-07	.2939E	00 .82892-09	.1674E 50
.1640E 02	.1343E 01	6724E-01	.1146E-07	.1538E-07	.2939E	00 .7705E-09	.1674E 00
1650E 02		11036-01	.1065E=07	.1437E-07	.2939E	0011755-09	.1674E UU
.1660E U2		1108E-01	.9900E-08	.1335E-07		001097E-09	.1674E 00
.1670E 02	•	1105E-01	.9204€=08	.1240E-07	.2939E	001020E-09	.1674E 00
.1680E 02		1108E-01	.8553E-08	.1151E-07		099476E-10	,1674E 00
.1690E 02		1108E-01	.7949E-03	.1069E-07		008808E-10	.16/4E UD
1700E 02		-,2155E-01	.7380E-08	.9928E-08		00 -,1592E-09	.1674E Jù
.1710E 02		2156E-01	.006/E-0d	.9213E-09		001480E-n9	.1674E UU
.1720E 02		-,2156E-01	.6332E-08	.8548E-03		00 - 1376E-69	.1674E JU
.1730E U2		-,2156E-01	.5931E-08	.7932E-08		001279E-09	.1674E 30
.1750E 02	1337E UL	-,2156E-J1	.5512E=08	.7360E-08		00 -,1188E-09	.1674E 00
.1760E 02	113335 01	1850E-01 1350E-01	.5123E=U8	.6829E-08		00 -,9478E-10	.1674E 00
.1770E 02	13305 01	1350E-01	.4761E=03	.6337E-08		008807E-10	.1674E 00
1780E 02		1850E-01	.4424E=08	.5881E=08		008185E-10	.1674E 00
1790E 02		1000E-01	.3621E=08	.5458E=08	_	007606E-10	.1674E 00
.1800E 02		4748E-01	.3550E-08	.5065E-08		007068E-10	.1674E 00
1810E 02		4750E-u1	.3299E=08	.4352E-08	.2939E	001686E-09	.1674E 0C
.1820E 02		47505-01	.3066E-U8	.4029E-08	-	001567E-09 001456E-09	.1674E 00
.1830E 02		4750E-01	2849E-08	.3730E-08			.1674E 00
.1840E 02		-,4750E-01	2647E=08	3454E-08		001353E-09 001257E-09	.1674E 00 .1674E 00
.1850E 02		4434E-02	.246UE-08	3198E-08		0010915-10	.1674E 00
.1860E 02	•	4400E-02	.2250E-08	.2970E-08		001006E-10	.1674E 00
.1870E 02	• .	4400E-02	.2124E-08	.2759E-08		009344E-11	.1674E 00
.1880E 02	•	-,4400E-02	.1973E=08	.2563E-08		008682E-11	.1674E 00
1890E 02	.1298E 01	-,440UE-C2	.18332-08	.2380E-08		008067E-11	.1674E 00
.1900E 02	.1298E 01	.1539E 00	.1703E-08	.2211E-08		00 .2622E-09	.1674E 00
.1910E 02	.1313E U1	.1541E UO	.1533E=08	.2078E-08	- -	10 .2439E=09	.1674E 00
.1920E 02	.1329E 01	.1541E UD	.1471E-08	.1954E-08		00 .2266E-09	.1674E UJ
.1930E 02	.1344E 01	.1541E 00	.1356E-08	.1836E-08		0 .2105E-09	.1674E JO
.1940E 02	,1359E 01	.1541E 00	.1269E-03	.1726E-08		0 .1956E-09	.1674E 00
.1950E 02	,1375E 01	.1203E 00	.1179E-08	.1621E-08		0 .1419E-09	.1674E 00
.1960E 02	.1387E 01	,12J3E 00	.1096E-08	.1520E-08		10 1318E-09	.1674E 00
.1970E 02	.1399⊏ 61	.1203E UU	.1013E-03	.1424E-08	,2939E C		.1674E UU
.1980E 02	.1411E 01	.1203E 00	.9457E-J9	.1334E-03	.2939E 0	0 .1138E-09	.1674E 00
.1990E 02	.1423E U1	.1203E 00	.8786E-09	.1250E-08	.29395 0	10 .1057E=09	.1674E 00

SPECTRUM AVERAGE CRUSS SECTION = .2939E OU

Report: ANL/NDM-30

Title: "Analysis of the Sensitivity of Spectrum-Average Cross Sections to Individual Characteristics of Differential Excitation Functions"

Author: Donald L. Smith

Organization: Applied Physics Division

Argonne National Laboratory Argonne, Illinois 60439

U.S.A.

Date of Report: March 1977

After this report was issued, two errors were found which should be corrected. Neither error is serious, but their presence might lead to some confusion.

Error 1:

Eq. (19) on page 13 should be replaced by -

$$P_{E} = \frac{100}{\langle \sigma \rangle} \int_{E}^{E_{2}} \delta(\epsilon) \sigma'(\epsilon) \phi(\epsilon) d\epsilon$$

$$\stackrel{\sim}{\sim} 100 \overline{\delta} g(E_{1}, E_{2})$$
(19)

The numeral one ("1") appeared instead of an apostrophy (""") as the superscript following σ .

Error 2:

The paragraph starting in the middle of page 17 and continuing on to page 18 should be replaced by the following paragraph:

The 46Ti(n;p) 46Sc Reaction

Although the threshold for this reaction is 1.62 MeV, there are no monoenergetic data upon which to base an evaluation in the threshold region below about 3.7 MeV. In a recent evaluation, it was necessary to determine the shape of the differential cross section in this region by means of statistical model calculations [9]. How important is this energy region from the point of view of dosimetry applications? What priority should be given to performing differential measurements at these energies? The table of F values for the Ti(n;p) Sc reaction, which is contained in the Appendix, can be used to readily show that about 3% of the contribution to < σ > for a U fission spectrum comes from energies below 3.7 MeV. The differential cross section estimated from model calculations could be in error by as much as 20% in this region, which would lead to an error of less than 1% in computation of the U spectrum-average cross section. Consequently, there appears to be no pressing need for differential measurements in this region from the point of view of reactor dosimetry.